



# **NINTH ANNUAL REPORT**

OF THE

## **Department of Mines and Minerals**

OF THE

### **PROVINCE OF ALBERTA**

FOR THE

**Fiscal Year Ended March 31st  
1958**

EDMONTON

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1958



To the Honourable J. J. Bowlen,

*Lieutenant Governor of the Province of Alberta.*

SIR:

I have the honour to submit the Report of the Department of Mines and Minerals for the fiscal year ended March 31st, 1958.

I have the honour to be, Sir,

Your obedient servant,

ERNEST C. MANNING,

*Minister of Mines and Minerals.*

Edmonton, November 1st, 1958.





CHIEF OFFICERS  
DEPARTMENT OF MINES AND MINERALS  
MARCH 31st, 1968

Hon. Ernest C. Manning	Minister
H. H. Somerville	Deputy Minister
J. B. Corbet	Solicitor
C. W. Jackman	Statistician
W. E. Shillaber	Administrative Accountant and Personnel Officer

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	Assistant Director
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J. A. Savage	Assistant Superintendent of Mineral Tax
J. M. Harrington	Assessor, Southern District
W. McGhie	Assessor, Northern District

TECHNICAL DIVISION

J. M. Novak	Superintendent
E. C. Stanforth	Assistant Superintendent

GEOLOGICAL DIVISION

J. R. Pow	Chief Geologist
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DEPARTMENT OF MINES AND MINERALS

MARCH 31st, 1958

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H. H. Somerville ..... *Deputy Minister*  
J. B. Corbet ..... *Solicitor*  
C. W. Jackman ..... *Statistician*  
W. E. Shillabeer ..... *Administrative Accountant and  
Personnel Officer*

MINERAL RIGHTS DIVISION

J. W. Patrick ..... *Director*  
R. A. Seaton ..... *Assistant Director*  
D. F. Morrison ..... *Supervisor of Leases and Mining  
Recorder, Edmonton District*  
D. C. MacMillan ..... *Mining Recorder, Calgary  
District*  
D. R. Jordan ..... *Supervisor of Revenue*

MINES DIVISION

J. A. Dutton ..... *Director*  
J. Horne ..... *Assistant Director*

MINERAL TAXATION DIVISION

V. L. Scott ..... *Superintendent of Mineral Tax*  
J. A. Savage ..... *Assistant Superintendent of  
Mineral Tax*  
I. M. Harrington ..... *Assessor, Southern District*  
W. McGeachie ..... *Assessor, Northern District*

TECHNICAL DIVISION

J. M. Novak ..... *Superintendent*  
E. G. Staniforth ..... *Assistant Superintendent*

GEOLOGICAL DIVISION

J. R. Pow ..... *Chief Geologist*



# Ninth Annual Report

of the

## Department of Mines and Minerals

HONOURABLE ERNEST C. MANNING,  
*Minister of Mines and Minerals,*  
Edmonton, Alberta.

SIR:

I have the honour to present the annual report of the Department of Mines and Minerals for the fiscal year ending March 31, 1958.

The favourable oil market situation in the Pacific Northwest States ended abruptly when the Near East crisis was resolved in the spring of 1957. The large tanker fleets which had been assembled to move oil to Europe were utilized to provide low cost transportation for the movement of Asiatic and South American crude to the North American market. This competition greatly reduced the market for Alberta crude in the Pacific coast states and forced a drastic cut in our production allowables. The steadily increasing production potential due to development and exploration drilling further aggravated the situation so far as individual wells were concerned.

Late in 1957 the completion of the gas line of Westcoast Transmission Company Limited connected gas fields of the Peace River area to markets of the British Columbia mainland and the northwest United States. At the same time the completion of Trans Canada Pipeline to the Lakehead provided markets for the gas fields which were connected to the western terminal of Trans Canada by the Alberta Gas Trunk Line Company Limited.

The first public hearings of the Royal Commission on Energy appointed by the Federal Government were held in Calgary from February 3rd to 28th, 1958. The first submission received by the Commission was from this Department. It dealt largely with provincial administration of Crown mineral rights in this Province.

While the number of well completions and total footage drilled were down in the calendar year 1957 from the totals for 1956, footage drilled on exploration increased from 2,182,129 to

2,377,012 and the number of exploration wells drilled was up from 384 to 438.

Gas discoveries with large potentials were completed in the foothills. Among these were Big Mountain Creek about 24 miles southwest of Grande Prairie, Lovett River near Lovett on the coal branch, and Stolberg located west of Rocky Mountain House. A promising oil discovery was made at Kaybob, midway between Whitecourt and Sturgeon Lake.

Revenue was down from the previous year with the surplus on income account amounting to \$123,560,526.66 compared to \$132,532,617.52 for the fiscal year ending March 31, 1957.

The legislation passed at the 1958 session of the Legislature pertaining to statutes administered by this Department is reviewed.

Many of the acquisitions of minerals by the Crown in right of Alberta under the Mineral Taxation Acts by forfeiture because of failure to pay mineral tax or by transfer to avoid taxation were concluded before the value of minerals was fully appreciated. The Mineral Titles Redemption Act entitles any person who had lost his minerals under the Mineral Taxation Acts to make application on or before the 31st day of March, 1960 to recover title by payment of a fee of \$10.00 and the tax outstanding together with the tax that would have become payable if title had not passed to the Crown.

In instances the Province had leased the minerals so acquired and under the redemption Act the leases will continue, but in the meantime moneys received on such a lease will be paid to the account of the person who applied to recover the title.

The Pipe Line Act, 1958, was passed to come into force on the first day of July, 1958. The new Act classifies the various types of pipe lines in use in the Province according to the functions for which each is used and brings under the Act pipe lines carrying gas to consumers other than distribution systems operated or authorized by cities, towns and villages. The supervision of the operation of pipe lines was transferred to the Superintendent of Pipe Lines. This function had formerly been performed by the Board of Public Utility Commissioners.

The pipe lines to which the new Act does not apply are set out specifically in order to avoid conflict with other provincial statutes relating to pipe lines and with the provisions of the Pipe Lines Act of Canada. The statute also provides that each pipe line operating in the Province must obtain an operating license



before June 30, 1959. Accordingly by that date there will be records of all pipe lines operating in the Province under authority of the new Act.

Minor amendments were made to The Right of Entry Arbitration Act. One of the amendments permits the mineral operator to obtain an order granting immediate right of entry on land required for his mineral operations, if he obtains a letter of consent from the owner and occupant of the land agreeing to the issuing of the order.

One of the amendments to The Oil and Gas Conservation Act requires additional information to be supplied before an applicant may obtain a license to commence the drilling of a well in a water covered area. Another amendment provides for a card system to be used in place of an assessment roll to facilitate administration of the assessment and taxation provisions of the Act. Section 73 of the Act was amended to permit the Oil and Gas Conservation Board to include in an order for the compulsory pooling of tracts within a spacing unit, a provision authorizing the sale of the production allocated to a tract. The operator may retain from the proceeds the tract's share of the operator's costs.

A new Act was passed entitled The Turner Valley Unit Operations Act which sets forth special provisions for the establishment of unit operations in parts of the Turner Valley Field. The diversity of ownership of oil and gas rights in various tracts in the field precluded the establishment of unit operations under the provisions of Part VIII of The Oil and Gas Conservation Act. Where it now is represented to the Oil and Gas Conservation Board that the ultimate recovery of oil and gas could be increased by the establishment of a unit operation, the Board after hearing the application may issue an order for the unit operation.

A separate report is issued yearly by the Mines Division and may be obtained from the Mines Division of this Department in the Natural Resources Building, Edmonton, Alberta.

Detailed reports of the other divisions follow.

All of which is respectfully submitted.

H. H. SOMERVILLE,

*Deputy Minister.*

November 1, 1958.



# Mineral Rights Administration

*Report of the Director of Mineral Rights*

J. W. PATRICK

The ninth year of administration by the Department of Mines and Minerals was very active.

Footage drilled for petroleum and natural gas during 1957 was 7,472,525 feet. This was a decrease of 2,621,054 feet from 1956. The production of crude oil decreased to 137,492,316 barrels being a reduction of 6,417,325 barrels from 1956. The number of producing wells increased from 7,390 to 8,015 and were capable of maintaining an average daily rate of production of 793,000 barrels at December 31, 1957, under good production practice in accordance with sound engineering and economic principles. Because of inadequate markets the average daily oil produced during the year was only 376,691 barrels, a decrease of four per cent from the previous year. There were 1,490 licenses issued to drill for oil or gas during 1957 compared with 1,914 licenses during the previous year.

Production of coal in Alberta in 1957 decreased by 1,174,285 tons. This decline in coal production is again chiefly attributable to the loss of markets by the increase in the use of alternate fuels.

The production and value of Alberta's chief minerals for 1957 were crude oil, 137,492,316 barrels valued at \$356,743,887.00; coal, 3,155,354 tons valued at \$17,287,229.00; natural gas,\* 152,035,320 Mcf., valued at \$7,601,766.00; and salt, 34,958 tons valued at \$1,336,757.00.

Mineral rights, solid, liquid and gaseous, the property of the Crown in right of the Province, are not sold, but are disposed of by lease, reservation license, permit or other agreement for limited periods of time. Revenue is obtained from fees, rentals, bonuses, royalties, sales of leases and other miscellaneous charges. During the fiscal year these sources provided a revenue of \$123,434,939.81 being a decrease of \$9,228,462.08 from the previous year. Sales of leases and reservations in Crown Reserves were held on four occasions in the fiscal year and the revenue from this source decreased nineteen million dollars.

The Province is divided into two mining districts; the Edmonton district comprises that portion of the Province lying to the north of the north boundary of Township 42 and the balance of the Province lying to the south is contained in the Calgary district.

During the year 3,824 applications for mineral rights were filed at the office of the Mining Recorders in Edmonton and Calgary and at the office of the Department in Edmonton. Many inquiries were made as to the availability of mineral rights,

\* Includes only marketed and consumed gas.

mostly for petroleum and natural gas leases and reservations by personal application and by correspondence.

A tabulation of leases together with statements of business transacted follow.

## MINERAL RIGHTS LEASES

Type of Lease	Active at April 1, 1957	Issued	Reinstated	Divided	Cancelled	Renewed	Active at March 31, 1958
Petroleum and Natural Gas .....	25,379	3,437	140	315	1,520	52	27,699
Natural Gas .....	273	38	.....	3	.....	....	314
Coal .....	524	19	.....	.....	44	1	498
Road Allowance Coal .....	148	8	.....	.....	11	1	144
Quarrying .....	57	8	.....	.....	8	1	56
Salt .....	2	1	.....	.....	.....	1	2
Bituminous Sands .....	11	1	.....	.....	.....	.....	12
Petroleum .....	.....	2	.....	.....	.....	.....	2
Miscellaneous .....	4	.....	.....	.....	.....	.....	4
<b>TOTAL .....</b>	<b>26,398</b>	<b>3,514</b>	<b>140</b>	<b>318</b>	<b>1,583</b>	<b>56</b>	<b>28,731</b>

## ACREAGE CONTAINED IN ABOVE LEASES

Type of Lease	Active at April 1, 1957	Issued	Reinstated	Cancelled	Renewed	Active at March 31, 1958
Petroleum and						
Natural Gas .....	20,468,037	4,180,991	43,935	1,515,848	5,330	23,171,785
Natural Gas .....	1,324,165	288,869	.....	51,306	.....	1,561,728
Coal .....	153,333	8,278	.....	10,122	42	151,447
Quarrying .....	7,632	2,103	.....	771	10	8,954
Salt .....	1,204	564	.....	.....	564	1,204
Bituminous Sands .....	98,005	2,094	.....	.....	.....	100,099
Petroleum .....	.....	25,272	.....	.....	.....	25,272
Miscellaneous .....	3,614	.....	.....	.....	.....	3,614
<b>TOTAL .....</b>	<b>22,055,990</b>	<b>4,508,171</b>	<b>43,935</b>	<b>1,578,047</b>	<b>5,946</b>	<b>25,024,103</b>

## STATEMENT OF BUSINESS TRANSACTED, 1957-1958

## PETROLEUM AND NATURAL GAS

	Number	Acres
Leases issued .....	3,437	4,180,991
Leases cancelled and relinquished .....	1,520	1,515,848
Leases reinstated .....	140	43,935
Prospecting reservations granted .....	259	13,078,621
Prospecting reservations terminated .....	322	17,274,142
Crown reserve drilling reservations granted .....	142	1,066,852
Crown reserve drilling reservations terminated .....	78	511,295
Natural gas licences issued .....	14	204,968
Natural gas licences terminated .....	14	334,537
Crown reserve natural gas licences issued .....	11	211,809
Crown reserve natural gas licences terminated .....	9	112,640
Natural gas leases issued .....	38	288,869
Natural gas leases cancelled and relinquished .....	.....	51,306
Petroleum leases issued .....	2	25,272
Fees, rentals, penalties and bonuses collected .....	\$ 31,044,071.22	
Royalties collected .....	32,812,134.59	
Crown reserve sales .....	58,641,836.13	
<b>TOTAL .....</b>	<b>\$122,498,041.94</b>	

## DEPARTMENT OF MINES AND MINERALS

## COAL

	Number	Acres
Leases issued .....	19	8,278
Leases cancelled and relinquished .....	44	10,122
Road Allowance Leases—		
Leases issued .....	8	
Leases cancelled and relinquished .....	11	
Fees and rentals collected .....	\$ 76,810.09	
Royalties collected .....	109,223.27	
TOTAL .....	186,033.36	

## QUARRYING

	Number	Acres
Quarrying leases issued .....	8	2,103
Quarrying leases cancelled and relinquished .....	8	771
Fees and rentals collected .....	\$ 117.75	
Royalties collected .....	45,920.70	
TOTAL .....	\$ 46,038.45	

## MISCELLANEOUS

	Number
Bituminous sands leases issued .....	1
Bituminous sands permits issued .....	50
Bituminous sands permits renewed .....	22
Quartz—	
Claims recorded .....	23
Certificates of Work issued .....	80
Placer—	
Claims recorded .....	9
Renewals issued .....	42
Powers of Attorney filed .....	4
Transfers recorded .....	7
Iron Prospecting Permits issued .....	1
Iron Prospecting Permits cancelled .....	7
Geophysical licences issued .....	172
Permits to operate geophysical equipment issued .....	13
Permits to operate geophysical equipment renewed .....	83
Mineral sales .....	9
Well licences issued .....	1,776
Fees, rentals, royalties and miscellaneous charges .....	\$704,826.06

## PETROLEUM AND NATURAL GAS

*Leases*—During the year 3,437 petroleum and natural gas leases were granted covering 4,180,991 acres and at the close of the fiscal year a total of 27,699 leases were in existence comprising an area of 23,171,785 acres.

The revenue received from fees amounted to \$36,084.82. The revenue from lease rentals was \$20,837,670.14 and the revenue from bonuses accepted by the Mining Recorders at sales of petroleum and natural gas leases by tender amounted to \$384,485.36. The revenue from penalties for the deferment of drilling on petroleum and natural gas leases amounted to \$6,900.00.

As petroleum occurs in the same zones comprised in gas leases in the Cessford area, two petroleum leases were issued to the holders of the gas leases. The leases covered an area of 25,272 acres. One lease relates to the Colorado zone and the other to the Blairmore zone. The cash purchase price for the two leases amounted to \$505,440.00 and the annual rental is thirty-three and one-third cents an acre.

*Disposal of Crown Reserves.*—Petroleum and natural gas rights comprised in Crown reserves may be disposed of by order of the Lieutenant Governor in Council and during the year 259 leases, eight reservations, 142 Crown reserve drilling reservations and eleven Crown reserve natural gas licenses were purchased and particulars of these Crown reserve purchases are included in this report. Particulars of Crown reserve fractional area leases purchased, Crown reserve natural gas leases purchased pursuant to Sections 280 and 282 and Crown reserve petroleum leases purchased pursuant to Section 280 of The Mines and Minerals Act are also included.

#### CROWN RESERVES PURCHASED IN BELLSHILL LAKE AREA

Description	Offer Accepted From:	Cash Purchase Price
E. $\frac{1}{2}$ 22-41-12-4	Midwest Oil Corporation	\$ 826,011.00
		\$ 826,011.00

#### CROWN RESERVES PURCHASED IN BENTLEY AREA

Description	Offer Accepted From:	Cash Purchase Price
N.E. $\frac{1}{4}$ 20-40- 1-5	South Edmonton Scrap Metal & Supply Ltd.	\$ 1,999.50
E. $\frac{1}{2}$ 24-40- 2-5	Imperial Oil Limited	60,237.85
		\$ 62,237.35

#### CROWN RESERVES PURCHASED IN ERSKINE AREA

Description	Offer Accepted From:	Cash Purchase Price
W. $\frac{1}{2}$ 14-39-21-4	Dome Exploration (Western) Limited	\$ 6,800.00
		\$ 6,800.00

#### CROWN RESERVES PURCHASED IN ETZIKOM AREA

Description	Offer Accepted From:	Cash Purchase Price
E. $\frac{1}{2}$ 13- 6- 8-4	Midcon Oil & Gas Limited	\$ 8,375.00
		\$ 8,375.00

#### CROWN RESERVES PURCHASED IN FENN-BIG VALLEY AREA

Description	Offer Accepted From:	Cash Purchase Price
N.W. $\frac{1}{4}$ 10-37-20-4	Dome Exploration (Western) Limited	\$ 58,800.00
N.W. $\frac{1}{4}$ 36-36-20-4	Michigan Developments Ltd.	2,630.00
N.E. $\frac{1}{4}$ 4-37-20-4	Michigan Developments Ltd.	5,030.00
S.E. $\frac{1}{4}$ 4-37-20-4	Michigan Developments Ltd.	4,230.00
		\$ 70,690.00

#### CROWN RESERVES PURCHASED IN GLEN PARK AREA

Description	Offer Accepted From:	Cash Purchase Price
S.E. $\frac{1}{4}$ 6-49-26-4	R & M Oil & Gas Ltd.	\$ 1,600.00
N.E. $\frac{1}{4}$ 34-48-27-4	Trans Empire Oils Ltd.	26,000.00
		\$ 27,600.00

#### CROWN RESERVES PURCHASED IN HARMATTAN-ELKTON AREA

Description	Offer Accepted From:	Cash Purchase Price
S.E. $\frac{1}{4}$ 30-32- 4-5	French Petroleum Company of Canada Ltd.	\$ 319,555.45
		\$ 319,555.45

### CROWN RESERVES PURCHASED IN HOMEGLEN-RIMBEY AREA

Description	Offer Accepted From:	Cash Purchase Price
W. ½ 24-43- 2-5	Western Decalta Petroleum Limited, Dome Exploration (Western) Limited, Tennessee Gas Transmission Company and Trans Empire Oils Ltd.	\$ 346,500.00
E. ½ 24-43- 2-5	Western Decalta Petroleum Limited, Dome Exploration (Western) Limited, Tennessee Gas Transmission Company and Trans Empire Oils Ltd.	452,600.00
		<hr/> \$ 799,100.00

### CROWN RESERVES PURCHASED IN JOARCAM AREA

Description	Offer Accepted From:	Cash Purchase Price
L.S.'s 5, 11 and 12 of 1-50-22-4	Supertest Petroleum Corporation, Limited	\$ 58,356.00
		<hr/> \$ 58,356.00

### CROWN RESERVES PURCHASED IN JOFFRE AREA

Description	Offer Accepted From:	Cash Purchase Price
N.W. ¼ 36-38-27-4	The California Standard Company	\$ 11,702.50
S.E. ¼ 36-38-27-4	Imperial Oil Limited	10,022.22
W. ½ 2-39-27-4	French Petroleum Company of Canada Ltd.	101,555.55
S.E. ¼ 2-39-27-4	Bailey Selburn Oil & Gas Ltd., The Crow's Nest Pass Coal Company Limited, Conick Petroleum Limited, Thomas Balmer, Lidie H. Balmer, Harold A. Miller, Jane S. Miller, Gottfried E. Karlen, Anastatia Karlen, Lawrence M. Arnold and Grace R. Arnold	72,800.00
		<hr/> \$ 196,080.27

### CROWN RESERVES PURCHASED IN KEYSTONE AREA

Description	Offer Accepted From:	Cash Purchase Price
E. ½ 24-48- 4-5	Canada-Cities Service Petroleum Corporation	\$ 355,531.25
W. ½ 30-48- 4-5	Western Decalta Petroleum Limited	161,496.00
S.E. ¼ 30-48- 4-5	Klinter Oils Limited	87,000.00
N. ½ 6-49- 4-5	Cree Oil of Canada Limited	226,000.00
S.W. ¼ 6-49- 4-5	Klinter Oils Limited	121,000.00
S.W. ¼ 30-48- 3-5	Canada-Cities Service Petroleum Corporation	121,877.00
N. ½ 13-48- 4-5	Canada-Cities Service Petroleum Corporation	210,240.00
E. ½ 20-48- 4-5	Canada-Cities Service Petroleum Corporation	114,240.00
		<hr/> \$ 1,397,384.25

### CROWN RESERVES PURCHASED IN NAMAQ AREA

Description	Offer Accepted From:	Cash Purchase Price
S.W. ¼ 36-54-25-4	Canadian Chieftain Petroleums Ltd.	\$ 11,488.00
		<hr/> \$ 11,488.00

### CROWN RESERVES PURCHASED IN PEMBINA AREA

Description	Offer Accepted From:	Cash Purchase Price
N. ½ 7-47- 6-5	Bailey Selburn Oil & Gas Ltd.	\$ 351,000.00
W. ½ 19-47- 6-5	Plymouth Oil Company	241,789.58
E. ½ 1-47- 7-5	Bailey Selburn Oil & Gas Ltd.	237,000.00
E. ½ 12-47- 7-5	Bailey Selburn Oil & Gas Ltd.	555,000.00
E. ½ 24-47- 7-5	Bailey Selburn Oil & Gas Ltd.	455,000.00
E. ½ 25-48- 7-5	Luscar Coals Limited	312,011.00
N. ½ 35-48- 7-5	Whitehall Canadian Oils Ltd., Murphy Corporation and Westburne Oil Development Limited	555,099.99
S. ½ 36-48- 7-5	Bailey Selburn Oil & Gas Ltd.	587,000.00
S. ½ 19-49- 7-5	The California Standard Company	552,000.00

CROWN RESERVES PURCHASED IN  
PEMBINA AREA (Continued)

Description	Offer Accepted From:	Cash Purchase Price
S. $\frac{1}{2}$ 20-49- 7-5	Seaboard Oil Company	544,320.00
S.W. $\frac{1}{4}$ 21-49- 7-5	McColl-Frontenac Oil Company Limited	220,000.00
S. $\frac{1}{2}$ 18-49- 8-5	The California Standard Company	563,000.00
N.W. $\frac{1}{4}$ 18-49- 8-5	McColl-Frontenac Oil Company Limited	185,000.00
W. $\frac{1}{2}$ 19-49- 8-5	Whitehall Canadian Oils Ltd., Murphy Corporation and Westburne Oil Development Limited	305,099.99
E. $\frac{1}{2}$ 22-49- 8-5	The California Standard Company	624,000.00
S. $\frac{1}{2}$ 23-49- 8-5	The California Standard Company	652,000.00
N.W. $\frac{1}{4}$ 23-49- 8-5	The California Standard Company	296,000.00
S. $\frac{1}{2}$ 24-49- 8-5	Seaboard Oil Company	704,320.00
W. $\frac{1}{2}$ 30-49- 8-5	Whitehall Canadian Oils Ltd., Murphy Corporation and Westburne Oil Development Limited	255,099.99
E. $\frac{1}{2}$ 25-49- 9-5	Dome Exploration (Western) Limited	184,800.00
N. $\frac{1}{2}$ 13-49-10-5	Northern Natural Gas Company	191,606.58
S. $\frac{1}{2}$ 13-49-10-5	Leeman David Smith	229,665.96
N. $\frac{1}{2}$ 14-49-10-5	Triad Oil Co. Ltd.	517,121.00
S. $\frac{1}{2}$ 14-49-10-5	Triad Oil Co. Ltd.	517,121.00
N. $\frac{1}{2}$ 15-49-10-5	Montreal Trust Company	227,551.00
S. $\frac{1}{2}$ 15-49-10-5	Texaco Exploration Company	231,099.00
S. $\frac{1}{2}$ 16-49-10-5	Texaco Exploration Company	221,707.00
E. $\frac{1}{2}$ 24-49-10-5	Northern Natural Gas Company	143,621.95
W. $\frac{1}{2}$ 21-48- 7-5	Imperial Oil Limited	120,151.25
N. $\frac{1}{2}$ 36-48- 7-5	Bailey Selburn Oil & Gas Ltd.	414,877.00
N. $\frac{1}{2}$ 36-46- 8-5	Luscar Coals Limited	185,011.00
S.E. $\frac{1}{4}$ 36-46- 8-5	Sinclair Canada Oil Company	121,121.21
E. $\frac{1}{2}$ 3-47- 8-5	Montreal Trust Company	143,712.00
E. $\frac{1}{2}$ 10-47- 8-5	Montreal Trust Company	161,012.00
S. $\frac{1}{2}$ 16-47- 8-5	The British American Oil Company Limited	374,000.00
S. $\frac{1}{2}$ 17-47- 8-5	Plymouth Oil Company	233,493.79
S. $\frac{1}{2}$ 4-48- 9-5	Sinclair Canada Oil Company	331,331.31
E. $\frac{1}{2}$ 5-48- 9-5	Sinclair Canada Oil Company	403,403.40
E. $\frac{1}{2}$ 8-48- 9-5	Sinclair Canada Oil Company	341,341.34
E. $\frac{1}{2}$ 5-49- 9-5	The British American Oil Company Limited	259,000.00
N. $\frac{1}{2}$ 9-49- 9-5	Whitehall Canadian Oils Ltd. and Westburne Oil Development Limited	140,010.00
S.W. $\frac{1}{4}$ 9-49- 9-5	Montreal Trust Company	90,512.00
E. $\frac{1}{2}$ 20-49- 9-5	Whitehall Canadian Oils Ltd. and Westburne Oil Development Limited	62,010.00
S.W. $\frac{1}{4}$ 3-49-10-5	Sinclair Canada Oil Company	141,141.41
E. $\frac{1}{2}$ 12-49-10-5	Cree Oil of Canada Limited	246,651.00
N.W. $\frac{1}{4}$ 2, N.E. $\frac{1}{4}$ 3, E. $\frac{1}{2}$ 10, W. $\frac{1}{2}$ 11, S.W. $\frac{1}{4}$ 14 and S.E. $\frac{1}{4}$ 15-48- 7-5	Humber Oils Limited	151,100.00
N.W. $\frac{1}{4}$ 3, N.E. $\frac{1}{4}$ 4, E. $\frac{1}{2}$ 9, W. $\frac{1}{2}$ 10, S.W. $\frac{1}{4}$ 15 and S.E. $\frac{1}{4}$ 16-48- 7-5	Colorado Oil and Gas Ltd.	300,308.58
N.W. $\frac{1}{4}$ 16 and N. $\frac{1}{2}$ 17-48- 7-5	Canada-Cities Service Petroleum Corporation	103,200.00
S. $\frac{1}{2}$ 18-47- 8-5 S. $\frac{1}{2}$ 's 13 and 14 & Sec. 15-47- 9-5	Plymouth Oil Company	628,945.00
W. $\frac{1}{2}$ 27, S. $\frac{1}{2}$ and N.E. $\frac{1}{4}$ 28 and S. $\frac{1}{2}$ 33-48- 8-5	McColl-Frontenac Oil Company Limited	109,000.00
W. $\frac{1}{2}$ 26-49- 8-5	The California Standard Company	307,308.00
E. $\frac{1}{2}$ 27-49- 8-5	Union Oil Company of California	250,050.00
N. $\frac{1}{2}$ 25 and Sec. 36-48- 9-5	Canada-Cities Service Petroleum Corporation	244,800.00
N. $\frac{1}{2}$ 26 and S. $\frac{1}{2}$ 's 34 and 35-48- 9-5	Canada-Cities Service Petroleum Corporation	244,800.00
Sec. 1-49- 9-5	Canada-Cities Service Petroleum Corporation	201,600.00
N. $\frac{1}{2}$ 's 10 and 11 S. $\frac{1}{2}$ and N.W. $\frac{1}{4}$ 14 and Sec. 15-49- 9-5	Canada-Cities Service Petroleum Corporation	547,791.00
Sec. 12-49- 9-5	Humber Oils Limited	217,100.00
Sec. 13 and E. $\frac{1}{2}$ 24-49- 9-5	Whitehall Canadian Oils Ltd. and Westburne Oil Development Limited	269,444.45
Sec. 16, E. $\frac{1}{2}$ 17 & W. $\frac{1}{2}$ 21-49- 9-5	Whitehall Canadian Oils Ltd. and Westburne Oil Development Limited	455,555.55
W. $\frac{1}{2}$ 28, N. $\frac{1}{2}$ & S.E. $\frac{1}{4}$ 29, S. $\frac{1}{2}$ 32 and S.W. $\frac{1}{4}$ 33-49- 9-5	Canada-Cities Service Petroleum Corporation	428,800.00
N. $\frac{1}{2}$ 30 & S. $\frac{1}{2}$ 31-49- 9-5 and E. $\frac{1}{2}$ 25 and S. $\frac{1}{2}$ 36-49-10-5	Canada-Cities Service Petroleum Corporation	428,800.00
S. $\frac{1}{2}$ 7-47- 6-5	Hudson's Bay Oil and Gas Company Limited	70,105.84



### CROWN RESERVES PURCHASED IN PEMBINA AREA (Continued)

Description	Offer Accepted From:	Cash Purchase Price
W. $\frac{1}{2}$ 7-48- 6-5	Humber Oils Limited	20,101.00
S. $\frac{1}{2}$ 20-48- 6-5	Champlin Oil & Refining Co.	115,200.00
S. $\frac{1}{2}$ 21-48- 6-5	Champlin Oil & Refining Co.	193,536.00
S.W. $\frac{1}{4}$ 6-49- 6-5	Whitehall Canadian Oils Ltd.	59,995.55
E. $\frac{1}{2}$ 25-47- 7-5	Plymouth Oil Company	75,369.00
E. $\frac{1}{2}$ 36-47- 7-5	Supertest Petroleum Corporation Limited	112,400.00
N. $\frac{1}{2}$ and S.E. $\frac{1}{4}$ 1-48- 7-5	Montreal Trust Company	45,011.00
N.E. $\frac{1}{4}$ 2-48- 7-5	Montreal Trust Company	23,011.00
E. $\frac{1}{2}$ 11-48- 7-5	Montreal Trust Company	21,011.00
Sec. 12-48- 7-5	Humber Oils Limited	40,101.00
S. $\frac{1}{2}$ & N.E. $\frac{1}{4}$ 13-48- 7-5	Humber Oils Limited	30,101.00
S.E. $\frac{1}{4}$ 14-48- 7-5	South Edmonton Scrap Metal & Supply Ltd.	16,161.60
S. $\frac{1}{2}$ 1-49- 7-5	Bailey Selburn Oil & Gas Ltd.	227,800.00
N.E. $\frac{1}{4}$ 1-49- 7-5	Mobil Oil of Canada, Ltd.	107,666.66
E. $\frac{1}{2}$ 12-49- 7-5	Luscar Coals Limited	165,011.00
N. $\frac{1}{2}$ 35-46- 8-5	Pan American Petroleum Corporation and Hudson's Bay Oil and Gas Company Limited	65,968.00
N.E. $\frac{1}{4}$ 33 and N. $\frac{1}{2}$ 34-49- 9-5	E. Constantine, Junior	66,116.00
N. $\frac{1}{2}$ 35-49- 9-5	Canada-Cities Service Petroleum Corporation	66,666.00
N. $\frac{1}{2}$ and S.E. $\frac{1}{4}$ 36-49- 9-5	Dome Exploration (Western) Limited	102,400.00
N. $\frac{1}{2}$ 16-49-10-5	Humber Oils Limited	68,101.00
W. $\frac{1}{2}$ 21-49-10-5	Cree Oil of Canada Limited	50,695.00
W. $\frac{1}{2}$ 28-49-10-5	Canada-Cities Service Petroleum Corporation	66,666.00
N. $\frac{1}{2}$ and S.W. $\frac{1}{4}$ 33-49-10-5	Canada-Cities Service Petroleum Corporation	50,805.00
N. $\frac{1}{2}$ 34-49-10-5	Humber Oils Limited	77,101.00
N. $\frac{1}{2}$ 35-49-10-5	Canada-Cities Service Petroleum Corporation	33,333.00
N. $\frac{1}{2}$ 36-49-10-5	Canada-Cities Service Petroleum Corporation	66,666.00
		<hr/>
		\$ 21,353,513.98

### CROWN RESERVES PURCHASED IN STURGEON LAKE SOUTH AREA

Description	Offer Accepted From:	Cash Purchase Price
N. $\frac{1}{2}$ 35-68-22-5	Imperial Oil Limited	\$ 254,635.51
S. $\frac{1}{2}$ 2-69-22-5	Imperial Oil Limited	223,375.85
Sec. 19-68-21-5	Triad Oil Co. Ltd.	30,000.00
N. $\frac{1}{2}$ 7-69-21-5	Triad Oil Co. Ltd.	5,000.00
S. $\frac{1}{2}$ 24-68-22-5	Triad Oil Co. Ltd.	50,000.00
N. $\frac{1}{2}$ 34-68-22-5	Champlin Oil & Refining Co.	151,368.00
		<hr/>
		\$ 714,379.36

### CROWN RESERVES PURCHASED IN SUNDRE AREA

Description	Offer Accepted From:	Cash Purchase Price
W. $\frac{1}{2}$ 35-33- 5-5	French Petroleum Company of Canada Ltd.	\$ 559,555.45
N.E. $\frac{1}{4}$ 26-33- 5-5	Union Oil Company of California	35,050.00
N. $\frac{1}{2}$ 16-34- 5-5	Cree Oil of Canada Limited	8,379.00
W. $\frac{1}{2}$ 2-34- 5-5	Cree Oil of Canada Limited	221,348.00
Sec. 11-34- 5-5	George Maxwell Peacock	51,102.00
		<hr/>
		\$ 875,434.45

### CROWN RESERVES PURCHASED IN WAINWRIGHT AREA

Description	Offer Accepted From:	Cash Purchase Price
N.W. $\frac{1}{4}$ 16-45- 6-4	Wizard Oils Limited	\$ 15,170.00
S.W. $\frac{1}{2}$ 28-45- 6-4	American Northland Oil Company	62,001.15
N.E. $\frac{1}{4}$ 29-45- 6-4	South Edmonton Scrap Metal & Supply Ltd.	28,001.95
S.E. $\frac{1}{4}$ 29-45- 6-4	American Northland Oil Company	45,498.85
N.W. $\frac{1}{4}$ 30-45- 6-4	High Crest Oils Limited	1,600.00
N.W. $\frac{1}{4}$ 34-45- 6-4	Wizard Oils Limited	11,160.76
S.E. $\frac{1}{4}$ 34-45- 6-4	Canadian Fortune Oil Ltd.	20,122.00
		<hr/>
		\$ 183,554.71



CROWN RESERVES PURCHASED IN  
WESTWARD-HO AREA

Description	Offer Accepted From:	Cash Purchase Price
N. ½ 4-33- 4-5	Northern Natural Gas Producing Company	\$ 35,111.00
S. ½ 16-33- 4-5	Northern Natural Gas Producing Company	25,112.00
N. ½ 36-32- 5-5	Triad Oil Co. Ltd., Great Plains Development Company of Canada, Ltd., and Hudson's Bay Oil and Gas Company Limited	16,000.00
S. ½ 2-33- 5-5	Triad Oil Co. Ltd., Great Plains Development Company of Canada, Ltd. and Hudson's Bay Oil and Gas Company Limited	16,000.00
E. ½ 20-33- 4-5	Hudson's Bay Oil and Gas Company Limited	11,529.60
W. ½ 20-33- 4-5	South Edmonton Scrap Metal & Supply Ltd.	8,320.75
		<hr/> \$ 112,073.35

CROWN RESERVES PURCHASED IN  
WILLESSEN GREEN AREA

Description	Offer Accepted From:	Cash Purchase Price
N.E. ¼ 31-42- 6-5	Amerada Petroleum Corporation	\$ 62,317.14
N. ½ 32-42- 6-5	Amerada Petroleum Corporation	177,088.02
N.W. ¼ 33-42- 6-5	Amerada Petroleum Corporation	86,601.13
S.E. ¼ 4-43- 6-5	Amerada Petroleum Corporation	86,601.13
N. ½ 18-43- 6-5	Amerada Petroleum Corporation	50,101.01
E. ½ 33-42- 6-5	Michigan Developments Ltd.	5,257.00
S.W. ¼ 3-43- 6-5	Michigan Developments Ltd.	5,419.00
N. ½ 17-43- 6-5	Amerada Petroleum Corporation	4,000.00
S. ½ 19-43- 6-5	Western Decalta Petroleum Limited	25,530.00
		<hr/> \$ 502,914.43

CROWN RESERVES PURCHASED ELSEWHERE IN  
ALBERTA

Description	Offer Accepted From:	Cash Purchase Price
S.W. ¼ 11-38-22-4	Pan American Petroleum Corporation	\$ 5,332.80
S. ½ 14-38-22-4	Pan American Petroleum Corporation	34,294.40
S.E. ¼ 22-38-22-4	Pan American Petroleum Corporation	1,780.80
W. ½ 24-38-22-4	Pan American Petroleum Corporation	13,251.20
N. ½ 6-27- 5-5	The British American Oil Company Limited	67,168.44
N. ½ 36-26- 6-5	The British American Oil Company Limited	8,126.11
Sec. 12-27- 6-5	The British American Oil Company Limited	133,507.64
E. ½ 12-20- 2-4	Griffith Annesley	4,800.00
E. ½ 13-20- 2-4	Griffith Annesley	4,830.00
N.W. ¼ 13-20- 2-4	Griffith Annesley	2,000.00
N.E. ¼ 14-20- 2-4	Griffith Annesley	2,000.00
E. ½ 3-32-22-4	Sun Oil Company	4,384.00
(Except Natural Gas in the Basal Blairmore zone)		
L.S.'s 3 and 4 of 30-53-25-4	Imperial Oil Limited	18,125.66
L.S. 11 of 30-53-25-4	Imperial Oil Limited	9,083.55
E. ½ 24-32-26-4	Texaco Exploration Company and McColl-Frontenac Oil Company Limited	87,000.00
N. ½ 36-32-26-4	Texaco Exploration Company and McColl-Frontenac Oil Company Limited	82,000.00
S.E. ¼ 36-32-26-4	Texaco Exploration Company and McColl-Frontenac Oil Company Limited	37,000.00
S. ½ 2-33-26-4	Texaco Exploration Company and McColl-Frontenac Oil Company Limited	87,000.00
Sec. 16-37-26-4	Shell Oil Company	123,501.00
N. ½ 18-37-26-4	Shell Oil Company	17,501.01
S. ½ 16-39-26-4	Bailey Selburn Oil & Gas Ltd.	34,897.00
W. ½ 29-39-26-4	French Petroleum Company of Canada Ltd.	15,555.65
Sec. 35-44-27-4	Sun Oil Company	38,400.00
Sec. 34-47-27-4	Transalta Minerals Ltd.	14,117.17
N. ½ 30-14-29-4	The California Standard Company	21,112.50
N. ½ 6-15-29-4	The California Standard Company	21,112.50
W. ½ 7-15-29-4	The California Standard Company	21,112.50
S. ½ 28-45- 2-5	Canadian Superior Oil of California, Ltd.	24,000.00
W. ½ 34-45- 2-5	Canadian Superior Oil of California, Ltd.	11,165.00
Sec. 11-30- 4-5	French Petroleum Company of Canada Ltd.	36,555.65
Sec. 14-30- 4-5	French Petroleum Company of Canada Ltd.	36,555.65
N. ½ 10-49- 5-5	Klinter Oils Limited	51,000.00
N. ½ 11-49- 5-5	Medallion Petroleums Limited	81,123.45
Sec. 16-41-12-4	Richfield Oil Corporation and Hudson's Bay Oil and Gas Company Limited	52,768.43
S. ½ 18- 4-13-4	Pacific Petroleums Ltd.	4,160.00
N. ½ 4-42-13-4	Great Plains Development Company of Canada, Ltd.	3,344.00

CROWN RESERVES PURCHASED ELSEWHERE IN  
ALBERTA (Continued)

Description	Offer Accepted From:	Cash Purchase Price
S. ½ 16-42-13-4	Great Plains Development Company of Canada, Ltd.	6,161.00
N.E. ¼ 12- 4-14-4	Pacific Petroleum Ltd.	2,080.00
W. ½ 16-29-23-4	Great Plains Development Company of Canada, Ltd.	3,344.00
W. ½ 21-29-23-4	Great Plains Development Company of Canada, Ltd.	5,252.00
N. ½ 34-32-26-4	Cree Oil of Canada Limited	8,379.00
W. ½ 10-33-26-4	Canadian Oil Companies, Limited and Plymouth Oil Company	51,170.00
W. ½ 22-33-26-4	Canadian Oil Companies, Limited and Plymouth Oil Company	9,870.00
N.W. ¼ 16-34-26-4	The British American Oil Company Limited	1,937.63
E. ½ 20-34-26-4	The British American Oil Company Limited	3,875.23
W. ½ 18-34- 1-5	Imperial Oil Limited	48,511.29
N.W. ¼ 28-34- 1-5	Canadian Oil Companies, Limited, The Calgary & Edmonton Corporation Limited and Security Freehold Petroleum Limited	237,830.00
S.W. ¼ 30-34- 1-5	French Petroleum Company of Canada, Ltd.	24,555.55
S. ½ 20-35- 1-5	Canadian Oil Companies, Limited, Cree Oil of Canada Limited, Williamson Drilling Co. Ltd., The Calgary & Edmonton Corporation Limited and Security Freehold Petroleum Limited	380,870.00
N.W. ¼ 32-35- 1-5	W. E. Bakke Oil Co. Ltd., Supertest Petroleum Corporation, Limited, Trans Empire Oils Ltd. and Okalta Oils, Limited	4,230.00
S.E. ¼ 6-36- 1-5	W. E. Bakke Oil Co. Ltd., Supertest Petroleum Corporation, Limited, Trans Empire Oils Ltd., Okalta Oils, Limited and William Byron Osborn, Senior	1,600.00
Sec. 7- 5- 2-5	Texaco Exploration Company	39,040.00
E. ½ 36-35- 2-5	Supertest Petroleum Corporation, Limited and Trans Empire Oils Ltd.	5,100.00
N.E. ¼ 24-32- 4-5	Shell Oil Company	220,001.01
W. ½ 24-32- 4-5	Home Oil Company Limited	551,000.00
N. ½ 30-10-22- 4	Imperial Oil Limited	6,466.56
L.S.'s 2 and 7 of 6- 11-22-4	Imperial Oil Limited	1,681.75
E. ½ 36-10-23-4	Imperial Oil Limited	6,571.88
Sec. 16-40-25-4	Canadian Seaboard Oil Company and The California Standard Company	25,810.00
W. ½ 1- 1-28-4	The California Standard Company	4,314.17
S. ½ and N.W. ¼ 2- 1-28-4	Shell Oil Company of Canada, Limited	15,142.07
Sec. 11- 1-28-4	Home Oil Company Limited	25,000.00
Sec. 16-38-28-4	Transalta Minerals Ltd.	10,307.07
W. ½ 36- 1-29-4	The British American Oil Company Limited	6,342.17
S. ½ 22- 2-29-4	The British American Oil Company Limited	6,342.17
S. ½ 22-20- 1-5	Transalta Minerals Ltd.	4,037.37
N.E. ¼ 32-35- 1-5	Sun Oil Company	10,771.30
Sec. 12-20- 2-5	Sun Oil Company	5,385.60
E. ½ 14-20- 2-5	Trans Empire Oils Ltd.	4,160.00
E. ½ 12-34- 2-5	Shell Oil Company of Canada, Limited	68,819.91
W. ½ 14-34- 2-5	The British American Oil Company Limited	8,035.31
S.E. ¼ 4-35- 2-5	Western Decalta Petroleum Limited and The Petrol Oil & Gas Company, Limited (No Personal Liability)	8,160.00
S. ½ 22-35- 2-5	Triad Oil Co. Ltd.	8,010.00
N. ½ 12-32- 4-5	Shell Oil Company of Canada, Limited and Canadian Superior Oil of California, Ltd.	204,289.98
S.W. ¼ 12-32- 4-5	Shell Oil Company of Canada, Limited and Canadian Superior Oil of California, Ltd.	101,314.72
S. ½ 8-38- 4-5	The California Standard Company	33,207.87
W. ½ 18-38- 4-5	The California Standard Company	26,305.37
W. ½ 19-38- 4-5	Imperial Oil Limited	19,435.57
W. ½ 2-64-19-5	French Petroleum Company of Canada Ltd.	367,555.55
W. ½ 11-64-19-5	The Atlantic Refining Company	256,025.75
W. ½ 14-64-19-5	The Atlantic Refining Company	351,025.75
W. ½ 23-64-19-5	French Petroleum Company of Canada Ltd.	587,555.55
E. ½ 12-79-23-5	South Edmonton Scrap Metal & Supply Ltd.	3,760.00

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\$ 4,999,326.27

## PETROLEUM AND NATURAL GAS RESERVATIONS PURCHASED IN PROVINCIAL RESERVES

Description	Offer Accepted From:	Cash Purchase Price
Comprising 92,160 acres in townships 67 and 68, ranges 8 and 9, west of the 5th meridian and located in Virginia Hills Provincial Reserve.	Mobil Oil of Canada, Ltd.	\$ 2,314,137.60
Comprising 92,160 acres in townships 65 and 66, ranges 10 and 11, west of the 5th meridian and located in Virginia Hills Provincial Reserve.	The British American Oil Company Limited and Pan American Petroleum Corporation	3,351,859.20
Comprising 98,240 acres in townships 73 and 74, ranges 4, 5 and 6, west of the 5th meridian and located in Marten Hills Provincial Reserve.	Imperial Oil Limited	491,761.88
Comprising 97,099 acres in townships 73, 75 and 76, ranges 6 and 7, west of the 5th meridian and located in Marten Hills Provincial Reserve.	Imperial Oil Limited	485,707.33
Comprising 97,920 acres in townships 83, 84 and 85, ranges 10, 11 and 12, west of the 6th meridian and located in Clear Hills Provincial Reserve.	Texas Pacific Coal and Oil Company, The Pure Oil Company, Bailey Selburn Oil & Gas Ltd. and Richfield Oil Corporation	1,057,256.68
Comprising 98,726 acres in townships 83, 84 and 85, ranges 12 and 13, west of the 6th meridian and located in Clear Hills Provincial Reserve.	Imperial Oil Limited and Pan American Petroleum Corporation	3,903,566.66
Comprising 92,160 acres in townships 58 and 59, ranges 3 and 4, west of the 6th meridian and located in Smoky River Provincial Reserve.	Texaco Exploration Company	601,088.00
Comprising 69,120 acres in township 92, ranges 9, 10 and 11, west of the 6th meridian and located in Clear Hills Provincial Reserve.	Richfield Oil Corporation	221,184.00
		<hr/> \$12,426,561.35

## CROWN RESERVE DRILLING RESERVATIONS PURCHASED

Description	Offer Accepted From:	Cash Purchase Price
Located in Township 45, ranges 5 and 6, west of the 4th meridian, comprising 4,960 acres; requiring the drilling of a well into the Wainwright Sandstone of the Mannville formation to acquire eight quarter sections under petroleum and natural gas lease.	Bailey Selburn Oil & Gas Ltd.	31,777.00
Located in Township 46, ranges 5 and 6, west of the 4th meridian, comprising 5,120 acres; requiring the drilling of a well into the Wainwright Sandstone of the Mannville formation to acquire eight quarter sections under petroleum and natural gas lease.	E. H. Vallat Ltd.	15,570.55
Located in Townships 42 and 43, range 13, west of the 4th meridian, comprising 3,680 acres; requiring the drilling of a well into the Ireton member of the Woodbend formation to acquire six quarter sections under petroleum and natural gas lease.	Hudson's Bay Oil and Gas Company Limited	24,259.20
Located in Townships 40 and 41, range 14, west of the 4th meridian, comprising 4,480 acres; requiring the drilling of a well into the Ireton member of the Woodbend formation to acquire seven quarter sections under petroleum and natural gas lease.	Hudson's Bay Oil and Gas Company Limited	17,102.40

# CROWN RESERVE DRILLING RESERVATIONS PURCHASED (Continued)

Description	Offer Accepted From:	Cash Purchase Price
Located in Townships 41 and 42, ranges 14 and 15, west of the 4th meridian, comprising 4,480 acres; requiring the drilling of a well into the Ireton member of the Woodbend formation to acquire seven quarter sections under petroleum and natural gas lease.	Hudson's Bay Oil and Gas Company Limited	17,102.40
Located in Townships 45 and 46, range 18, west of the 4th meridian, comprising 5,120 acres; requiring the drilling of a well into the Nisku member of the Winterburn formation to acquire eight quarter sections under petroleum and natural gas lease.	Phillips Petroleum Company	15,000.00
Located in Townships 46 and 47, ranges 22 and 23, west of the 4th meridian, comprising 6,240 acres; requiring the drilling of a well into the Leduc member of the Woodbend formation to acquire ten quarter sections under petroleum and natural gas lease.	Will I. Lewis Drilling Company	4,690.00
Located in Township 58, range 23, west of the 4th meridian, comprising 5,760 acres; requiring the drilling of a well into the Cooking Lake member of the Woodbend formation to acquire nine quarter sections under petroleum and natural gas lease.	Canada-Cities Service Petroleum Corporation	76,076.00
Located in Townships 17 and 18, range 24, west of the 4th meridian, comprising 6,880 acres; requiring the drilling of a well into a zone of Mississippian age to acquire ten quarter sections under petroleum and natural gas lease.	Texas Pacific Coal and Oil Company and The Pure Oil Company	60,416.00
Located in Townships 17 and 18, ranges 24 and 25, west of the 4th meridian, comprising 7,200 acres; requiring the drilling of a well into the Shunda formation of the Rundle group to acquire ten quarter sections under petroleum and natural gas lease.	Shell Oil Company	51,111.11
Located in Townships 31 and 32, ranges 25 and 26, west of the 4th meridian, comprising 8,320 acres; requiring the drilling of a well into the Leduc member of the Woodbend formation to acquire twelve quarter sections under petroleum and natural gas lease.	Texaco Exploration Company	201,127.00
Located in Townships 54 and 55, ranges 25 and 26, west of the 4th meridian, comprising 7,040 acres; requiring the drilling of a well into the Cooking Lake member of the Woodbend formation to acquire ten quarter sections under petroleum and natural gas lease.	Cree Oil of Canada Limited	18,652.00
Located in Townships 11 and 12, ranges 26 and 27, west of the 4th meridian, comprising 7,840 acres; requiring the drilling of a well into the Rundle group to acquire twelve quarter sections under petroleum and natural gas lease.	Sinclair Canada Oil Company	18,911.00
Located in Townships 2 and 3, ranges 27 and 28, west of the 4th meridian, comprising 11,469 acres; requiring the drilling of a well into the Turner Valley formation of the Rundle group to acquire sixteen quarter sections under petroleum and natural gas lease.	Shell Oil Company	5,001.01

# CROWN RESERVE DRILLING RESERVATIONS PURCHASED (Continued)

Description	Offer Accepted From:	Cash Purchase Price
Located in Townships 23 and 24, ranges 27, 28 and 29, west of the 4th meridian, comprising 9,088 acres; requiring the drilling of a well into the Crossfield member of the Wabamun formation to acquire fourteen quarter sections under petroleum and natural gas lease.	Montreal Trust Company	157,146.50
Located in Townships 43 and 44, ranges 27 and 28, west of the 4th meridian, comprising 7,490 acres; requiring the drilling of a well into the Cooking Lake member of the Woodbend formation to acquire twelve quarter sections under petroleum and natural gas lease.	The California Standard Company	6,112.76
Located in Townships 2, 3 and 4, ranges 29 and 30, west of the 4th meridian, comprising 11,047 acres; requiring the drilling of a well into the Turner Valley formation of the Rundle group to acquire sixteen quarter sections under petroleum and natural gas lease.	Shell Oil Company	751,101.01
Located in Townships 28, 29 and 30, range 2, west of the 5th meridian, comprising 8,960 acres; requiring the drilling of a well into the Shunda formation of the Rundle group to acquire twelve quarter sections under petroleum and natural gas lease.	Tennessee Gas Transmission Company	227,510.00
Located in Townships 45 and 46, ranges 5 and 6, west of the 5th meridian, comprising 7,520 acres; requiring the drilling of a well into the Rundle group to acquire ten quarter sections under petroleum and natural gas lease.	Alida Oil Company Limited	132,870.00
Located in Townships 48 and 49, ranges 5 and 6, west of the 5th meridian, comprising 7,680 acres; requiring the drilling of a well into a zone of Mississippian age to acquire ten quarter sections under petroleum and natural gas lease.	Canada-Cities Service Petroleum Corporation	808,001.00
Located in Townships 49 and 50, ranges 5 and 6, west of the 5th meridian, comprising 7,040 acres; requiring the drilling of a well into a zone of Mississippian age to acquire ten quarter sections under petroleum and natural gas lease.	Canada-Cities Service Petroleum Corporation	219,912.00
Located in Township 58, range 9, west of the 5th meridian, comprising 5,760 acres; requiring the drilling of a well into a zone of Mississippian age to acquire nine quarter sections under petroleum and natural gas lease.	Canada-Cities Service Petroleum Corporation	72,723.00
Located in Township 58, range 13, west of the 5th meridian, comprising 6,400 acres; requiring the drilling of a well into a zone of Mississippian age to acquire ten quarter sections under petroleum and natural gas lease.	Merrill Petroleums Limited	39,958.00
Located in Townships 53 and 54, range 15, west of the 5th meridian, comprising 6,560 acres; requiring the drilling of a well into the Cardium formation to acquire ten quarter sections under petroleum and natural gas lease.	Shell Oil Company	2,501.01
Located in Townships 53 and 54, ranges 15 and 16, west of the 5th meridian, comprising 6,240 acres; requiring the drilling of a well into the Cardium formation to acquire ten quarter sections under petroleum and natural gas lease.	Shell Oil Company	2,501.01

# CROWN RESERVE DRILLING RESERVATIONS PURCHASED (Continued)

Description	Offer Accepted From:	Cash Purchase Price
Located in Townships 38 and 39, ranges 8 and 9, west of the 4th meridian, comprising 4,480 acres; requiring the drilling of a well into the Paleozoic sediments to acquire six quarter sections under petroleum and natural gas lease.	Texaco Exploration Company	34,560.00
Located in Township 25, range 9, west of the 4th meridian, comprising 4,480 acres; requiring the drilling of a well into a zone of Mississippian age to acquire six quarter sections under petroleum and natural gas lease.	Hudson's Bay Oil and Gas Company Limited	10,339.20
Located in Township 25, range 9, west of the 4th meridian, comprising 4,320 acres; requiring the drilling of a well into a zone of Mississippian age to acquire six quarter sections under petroleum and natural gas lease.	Hudson's Bay Oil and Gas Company Limited	10,339.20
Located in Township 29, range 17, west of the 4th meridian, comprising 7,200 acres; requiring the drilling of a well into the Leduc member of the Woodbend formation to acquire nine quarter sections under petroleum and natural gas lease.	Canadian Homestead Oils Limited	4,622.40
Located in Township 42, range 18, west of the 4th meridian, comprising 4,640 acres; requiring the drilling of a well into the Leduc member of the Woodbend formation to acquire eight quarter sections under petroleum and natural gas lease.	Bailey Selburn Oil and Gas Ltd.	36,666.00
Located in Townships 32 and 33, range 19, west of the 4th meridian, comprising 6,400 acres; requiring the drilling of a well into the Cooking Lake member of the Woodbend formation to acquire ten quarter sections under petroleum and natural gas lease.	Honolulu Oil Corporation	16,896.00
Located in Townships 34 and 35, ranges 20 and 21, west of the 4th meridian, comprising 7,040 acres; requiring the drilling of a well into the Cooking Lake member of the Woodbend formation to acquire ten quarter sections under petroleum and natural gas lease.	Cree Oil of Canada Limited, Canadian Oil Companies, Limited and Supertest Petroleum Corporation Limited	167,968.00
Located in Townships 30 and 31, ranges 22 and 23, west of the 4th meridian, comprising 8,160 acres; requiring the drilling of a well into the Cooking Lake member of the Woodbend formation to acquire eleven quarter sections under petroleum and natural gas lease.	Mobil Oil of Canada, Ltd.	100,013.75
Located in Townships 14, 15 and 16, ranges 24 and 25, west of the 4th meridian, comprising 8,480 acres; requiring the drilling of a well into the Crossfield member of the Wabamun formation to acquire twelve quarter sections under petroleum and natural gas lease.	Mobil Oil of Canada, Ltd.	75,013.75
Located in Townships 37 and 38, ranges 26 and 27, west of the 4th meridian, comprising 7,200 acres; requiring the drilling of a well into the Leduc member of the Woodbend formation to acquire eleven quarter sections under petroleum and natural gas lease.	The California Standard Company	156,667.50



# CROWN RESERVE DRILLING RESERVATIONS PURCHASED (Continued)

Description	Offer Accepted From:	Cash Purchase Price
Located in Townships 25, 26 and 27, ranges 28 and 29, west of the 4th meridian and range 1, west of the 5th meridian, comprising 8,005 acres; requiring the drilling of a well into the Crossfield member of the Wabamun formation to acquire fourteen quarter sections under petroleum and natural gas lease.	Banff Oil Ltd.	466,699.13
Located in Townships 21 and 22, ranges 1 and 2, west of the 5th meridian, comprising 8,316 acres; requiring the drilling of a well into the Shunda formation of the Rundle group to acquire fourteen quarter sections under petroleum and natural gas lease.	Hudson's Bay Oil and Gas Company Limited	67,782.40
Located in Townships 48 and 49, ranges 3 and 4, west of the 5th meridian, comprising 6,560 acres; requiring the drilling of a well into a zone of Mississippian age to acquire ten quarter sections under petroleum and natural gas lease.	Tidewater Oil Company	1,198,110.00
Located in Township 43, ranges 4 and 5, west of the 5th meridian, comprising 7,680 acres; requiring the drilling of a well into the Banff formation to acquire eleven quarter sections under petroleum and natural gas lease.	Canadian Superior Oil of California, Ltd. and Imperial Oil Limited	38,855.25
Located in Townships 45 and 46, range 5, west of the 5th meridian, comprising 9,120 acres; requiring the drilling of a well into the Cooking Lake member of the Woodbend formation to acquire twelve quarter sections under petroleum and natural gas lease.	Union Oil Company of California	184,160.00
Located in Townships 49 and 50, ranges 6 and 7, west of the 5th meridian, comprising 7,200 acres; requiring the drilling of a well into a zone of Mississippian age to acquire ten quarter sections under petroleum and natural gas lease.	Canadian Superior Oil of California, Ltd. and Imperial Oil Limited	240,221.21
Located in Townships 50 and 51, range 6, west of the 5th meridian, comprising 6,720 acres; requiring the drilling of a well into a zone of Mississippian age to acquire ten quarter sections under petroleum and natural gas lease.	McColl-Frontenac Oil Company Limited	45,000.00
Located in Township 69, ranges 8 and 9, west of the 5th meridian, comprising 10,080 acres; requiring the drilling of a well into the zone immediately above the Pre-Cambrian granite to acquire fourteen quarter sections under petroleum and natural gas lease.	McColl-Frontenac Oil Company Limited	49,000.00
Located in Township 69, ranges 9 and 10, west of the 5th meridian, comprising 10,080 acres; requiring the drilling of a well into the zone immediately above the Pre-Cambrian granite to acquire fourteen quarter sections under petroleum and natural gas lease.	McColl-Frontenac Oil Company Limited	49,000.00
Located in Townships 76 and 77, ranges 16 and 17, west of the 5th meridian, comprising 8,480 acres; requiring the drilling of a well into the zone immediately above the Pre-Cambrian granite to acquire eleven quarter sections under petroleum and natural gas lease.	Canadian Oil Companies, Limited and The Calgary and Edmonton Corporation	35,400.00



# CROWN RESERVE DRILLING RESERVATIONS PURCHASED (Continued)

Description	Offer Accepted From:	Cash Purchase Price
Located in Townships 80 and 81, ranges 16 and 17, west of the 5th meridian, comprising 7,840 acres; requiring the drilling of a well into the Beaverhill Lake formation to acquire ten quarter sections under petroleum and natural gas lease.	Dawson Oil Corporation	32,600.00
Located in Townships 65 and 66, ranges 18 and 19, west of the 5th meridian, comprising 10,080 acres; requiring the drilling of a well into the zone immediately above the Pre-Cambrian granite to acquire sixteen quarter sections under petroleum and natural gas lease.	Texaco Exploration Company	322,560.00
Located in Township 82, range 18, west of the 5th meridian, comprising 6,880 acres; requiring the drilling of a well into the zone immediately above the Pre-Cambrian granite to acquire eleven quarter sections under petroleum and natural gas lease.	Forest Oil Corporation	50,830.00
Located in Townships 65 and 66, range 19, west of the 5th meridian, comprising 10,080 acres; requiring the drilling of a well into the zone immediately above the Pre-Cambrian granite to acquire sixteen quarter sections under petroleum and natural gas lease.	Sinclair Canada Oil Company and Phillips Petroleum Company	520,000.00
Located in Townships 80 and 81, ranges 19 and 20, west of the 5th meridian, comprising 7,460 acres; requiring the drilling of a well into the zone immediately above the Pre-Cambrian granite to acquire eleven quarter sections under petroleum and natural gas lease.	Hudson's Bay Oil and Gas Company Limited	62,955.20
Located in Townships 82 and 83, ranges 22 and 23, west of the 5th meridian, comprising 8,160 acres; requiring the drilling of a well into the zone immediately above the Pre-Cambrian granite to acquire eleven quarter sections under petroleum and natural gas lease.	Shell Oil Company	3,601.01
Located in Township 83, ranges 22 and 23, west of the 5th meridian, comprising 8,320 acres; requiring the drilling of a well into the zone immediately above the Pre-Cambrian granite to acquire eleven quarter sections under petroleum and natural gas lease.	Shell Oil Company	2,551.01
Located in Township 70, ranges 24 and 25, west of the 5th meridian, comprising 9,481 acres; requiring the drilling of a well into the Leduc member of the Woodbend formation to acquire fourteen quarter sections under petroleum and natural gas lease.	Triad Oil Co. Ltd.	25,000.00
Located in Townships 65 and 66, ranges 25 and 26, west of the 5th meridian, comprising 10,720 acres; requiring the drilling of a well into the Leduc member of the Woodbend formation to acquire fourteen quarter sections under petroleum and natural gas lease.	Western Decalta Petroleum Limited, Canpet Exploration Ltd., Sunshine Exploration Ltd., Marigold Oils Limited and The Petrol Oil and Gas Company Limited	41,968.00
Located in Townships 75 and 76, ranges 25 and 26, west of the 5th meridian, comprising 9,440 acres; requiring the drilling of a well into the zone immediately above the Pre-Cambrian granite to acquire fourteen quarter sections under petroleum and natural gas lease.	Canadian Oil Companies, Limited, Mobil Oil of Canada, Ltd., Cree Oil of Canada Ltd. and The Calgary & Edmonton Corporation Limited	44,400.00

# CROWN RESERVE DRILLING RESERVATIONS PURCHASED (Continued)

Description	Offer Accepted From:	Cash Purchase Price
Located in Townships 74 and 75, ranges 25 and 26, west of the 5th meridian, comprising 9,920 acres; requiring the drilling of a well into the Leduc member of the Woodbend formation to acquire fourteen quarter sections under petroleum and natural gas lease.	Triad Oil Co. Ltd.	25,003.00
Located in Townships 84 and 85, ranges 2 and 3, west of the 6th meridian, comprising 10,240 acres; requiring the drilling of a well into the zone immediately above the Pre-Cambrian granite to acquire fourteen quarter sections under petroleum and natural gas lease.	Bailey Selburn Oil & Gas Ltd. and Imperial Oil Limited	20,497.00
Located in Townships 85 and 86, ranges 2 and 3, west of the 6th meridian, comprising 10,240 acres; requiring the drilling of a well into the zone immediately above the Pre-Cambrian granite to acquire fourteen quarter sections under petroleum and natural gas lease.	Bailey Selburn Oil & Gas Ltd. and Imperial Oil Limited	20,497.00
Located in Townships 87 and 88, ranges 4 and 5, west of the 6th meridian; comprising 9,440 acres; requiring the drilling of a well into the zone immediately above the Pre-Cambrian granite to acquire fourteen quarter sections under petroleum and natural gas lease.	Shell Oil Company	7,601.01
Located in Townships 88 and 89, ranges 4 and 5, west of the 6th meridian, comprising 9,600 acres; requiring the drilling of a well into the zone immediately above the Pre-Cambrian granite to acquire fourteen quarter sections under petroleum and natural gas lease.	Shell Oil Company	7,601.01
Located in Townships 70 and 71, ranges 5 and 6, west of the 6th meridian, comprising 9,440 acres; requiring the drilling of a well into the Woodbend formation to acquire sixteen quarter sections under petroleum and natural gas lease.	Shell Oil Company	1,001.01
Located in Townships 71 and 72, ranges 6 and 7, west of the 6th meridian, comprising 9,920 acres; requiring the drilling of a well into the Woodbend formation to acquire sixteen quarter sections under petroleum and natural gas lease.	Shell Oil Company	1,001.01
Located in Townships 48 and 49, range 1, west of the 4th meridian, comprising 5,920 acres; requiring the drilling of a well into the General Petroleum Sand to acquire eight quarter sections under petroleum and natural gas lease.	Husky Oil & Refining Ltd.	3,100.00
Located in Townships 50 and 51, ranges 1 and 2, west of the 4th meridian, comprising 4,800 acres; requiring the drilling of a well into the General Petroleum Sand to acquire eight quarter sections under petroleum and natural gas lease.	Husky Oil & Refining Ltd.	2,600.00
Located in Townships 44 and 45, ranges 3 and 4, west of the 4th meridian, comprising 7,040 acres; requiring the drilling of a well into the Elk Point group to acquire eight quarter sections under petroleum and natural gas lease.	Pacific Petroleum Ltd.	11,501.01
Located in Township 22, range 5, west of the 4th meridian, comprising 3,840 acres; requiring the drilling of a well into the Basal Blairmore member of the Blairmore formation to acquire six quarter sections under petroleum and natural gas lease.	New Chamberlain Petroleum Ltd.	7,756.80

# CROWN RESERVE DRILLING RESERVATIONS PURCHASED (Continued)

Description	Offer Accepted From:	Cash Purchase Price
Located in Townships 31 and 32, ranges 9 and 10, west of the 4th meridian, comprising 5,920 acres; requiring the drilling of a well into the Jefferson formation to acquire six quarter sections under petroleum and natural gas lease.	Charter Oil Company Limited	15,111.11
Located in Township 43, ranges 13 and 14, west of the 4th meridian, comprising 4,000 acres; requiring the drilling of a well into the Ireton member of the Woodbend formation to acquire six quarter sections under petroleum and natural gas lease.	Canpet Exploration Ltd., Okalta Oils, Limited and W. B. Osborn	9,628.80
Located in Township 28, range 17, west of the 4th meridian, comprising 6,080 acres; requiring the drilling of a well into the Leduc member of the Woodbend formation to acquire nine quarter sections under petroleum and natural gas lease.	Canadian Homestead Oils Limited	5,772.40
Located in Township 8, ranges 17 and 18, west of the 4th meridian, comprising 4,320 acres; requiring the drilling of a well into the Bow Island formation to acquire six quarter sections under petroleum and natural gas lease.	Imperial Oil Limited	4,823.76
Located in Township 1, ranges 19 and 20, west of the 4th meridian, comprising 4,840 acres; requiring the drilling of a well into the Rundle group to acquire seven quarter sections under petroleum and natural gas lease.	E. H. Vallat Ltd.	3,511.23
Located in Townships 32 and 33, ranges 19 and 20, west of the 4th meridian, comprising 7,680 acres; requiring the drilling of a well into the Elk Point group to acquire twelve quarter sections under petroleum and natural gas lease.	Consolidated Mic Mac Oils Ltd.	38,555.51
Located in Township 42, ranges 24 and 25, west of the 4th meridian, comprising 5,920 acres; requiring the drilling of a well into the Ireton member of the Woodbend formation to acquire nine quarter sections under petroleum and natural gas lease.	Shell Oil Company	112,101.01
Located in Township 53, ranges 25, 26 and 27, west of the 4th meridian, comprising 5,173 acres; requiring the drilling of a well into the Leduc member of the Woodbend formation to acquire eight quarter sections under petroleum and natural gas lease.	Pan American Petroleum Corporation	85,923.53
Located in Townships 39 and 40, ranges 26 and 27, west of the 4th meridian, comprising 5,920 acres; requiring the drilling of a well into the Nisku member of the Winterburn formation to acquire ten quarter sections under petroleum and natural gas lease.	Canadian Superior Oil of California, Ltd.	5,000.00
Located in Townships 36 and 37, range 1, west of the 5th meridian, comprising 6,880 acres; requiring the drilling of a well into the Leduc member of the Woodbend formation to acquire twelve quarter sections under petroleum and natural gas lease.	Canadian Seaboard Oil Company	150,995.10
Located in Townships 60 and 61, ranges 2 and 3, west of the 5th meridian, comprising 4,640 acres; requiring the drilling of a well into a zone of Mississippian age to acquire seven quarter sections under petroleum and natural gas lease.	Home Oil Company Limited	6,700.00

# CROWN RESERVE DRILLING RESERVATIONS PURCHASED (Continued)

Description	Offer Accepted From:	Cash Purchase Price
Located in Townships 35, 36 and 37, ranges 3 and 4, west of the 5th meridian, comprising 10,240 acres; requiring the drilling of a well into the Leduc member of the Woodbend formation to acquire sixteen quarter sections under petroleum and natural gas lease.	Hudson's Bay Oil and Gas Company Limited	751,782.00
Located in Townships 50 and 51, ranges 4 and 5, west of the 5th meridian, comprising 7,520 acres; requiring the drilling of a well into a zone of Mississippian age to acquire ten quarter sections under petroleum and natural gas lease.	Sohio Petroleum Company	24,000.00
Located in Townships 34 and 35, ranges 5 and 6, west of the 5th meridian, comprising 10,720 acres; requiring the drilling of a well into the Elkton member of the Turner Valley formation to acquire fourteen quarter sections under petroleum and natural gas lease.	Altana Exploration Company	376,500.00
Located in Township 41, range 6, west of the 5th meridian, comprising 9,760 acres; requiring the drilling of a well into the Leduc member of the Woodbend formation to acquire sixteen quarter sections under petroleum and natural gas lease.	Amerada Petroleum Corporation	131,103.16
Located in Township 43, range 6, west of the 5th meridian, comprising 7,680 acres; requiring the drilling of a well into a zone of Mississippian age to acquire twelve quarter sections under petroleum and natural gas lease.	Amerada Petroleum Corporation	7,000.00
Located in Townships 36 and 37, ranges 7 and 8, west of the 5th meridian, comprising 10,720 acres; requiring the drilling of a well into the Banff formation to acquire sixteen quarter sections under petroleum and natural gas lease.	Hudson's Bay Oil and Gas Company Limited	64,000.00
Located in Townships 30, 31 and 32, ranges 8 and 9, west of the 5th meridian, comprising 11,680 acres; requiring the drilling of a well into the Turner Valley formation of the Rundle group to acquire fourteen quarter sections under petroleum and natural gas lease.	Shell Oil Company	7,101.01
Located in Townships 50 and 51, ranges 8 and 9, west of the 5th meridian, comprising 7,520 acres; requiring the drilling of a well into a zone of Mississippian age to acquire eleven quarter sections under petroleum and natural gas lease.	Alida Oil Company Limited	80,513.00
Located in Townships 32 and 33, ranges 9 and 10, west of the 5th meridian, comprising 11,200 acres; requiring the drilling of a well into the Turner Valley formation of the Rundle group to acquire fourteen quarter sections under petroleum and natural gas lease.	Shell Oil Company	12,501.01
Located in Townships 87 and 88, ranges 21 and 22, west of the 5th meridian, comprising 7,680 acres; requiring the drilling of a well into the zone immediately above the Pre-Cambrian granite to acquire eleven quarter sections under petroleum and natural gas lease.	Bailey Selburn Oil & Gas Ltd. and Husky Oil & Refining Ltd., 50% interest each	5,200.00

# CROWN RESERVE DRILLING RESERVATIONS PURCHASED (Continued)

Description	Offer Accepted From:	Cash Purchase Price
Located in Township 88, ranges 21 and 22, west of the 5th meridian, comprising 8,320 acres; requiring the drilling of a well into the zone immediately above the Pre-Cambrian granite to acquire eleven quarter sections under petroleum and natural gas lease.	Bailey Selburn Oil & Gas Ltd. and Husky Oil & Refining Ltd., 50% interest each	6,400.00
Located in Townships 87 and 88, range 22, west of the 5th meridian, comprising 7,680 acres; requiring the drilling of a well into the zone immediately above the Pre-Cambrian granite to acquire eleven quarter sections under petroleum and natural gas lease.	Husky Oil & Refining Ltd. and Bailey Selburn Oil & Gas Ltd., 50% interest each	5,300.00
Located in Townships 79 and 80, ranges 2 and 3, west of the 6th meridian, comprising 8,960 acres; requiring the drilling of a well into the zone immediately above the Pre-Cambrian granite to acquire twelve quarter sections under petroleum and natural gas lease.	Honolulu Oil Corporation	39,686.40
Located in Township 81, ranges 6 and 7, west of the 6th meridian, comprising 7,680 acres; requiring the drilling of a well into the Shunda formation of the Rundle group to acquire ten quarter sections under petroleum and natural gas lease.	Triad Oil Co. Ltd.	1,000.00
Located in Townships 79 and 80, ranges 12 and 13, west of the 6th meridian, comprising 8,056 acres; requiring the drilling of a well into the Triassic System to acquire ten quarter sections under petroleum and natural gas lease.	New Chamberlain Petroleums Ltd.	40,280.00
Located in Townships 40 and 41, range 11, west of the 4th meridian, comprising 4,960 acres; requiring the drilling of a well into the Paleozoic sediments to acquire seven quarter sections under petroleum and natural gas lease.	Texaco Exploration Company	58,240.00
Located in Townships 43 and 44, range 15, west of the 4th meridian, comprising 5,760 acres; requiring the drilling of a well into the Cooking Lake member of the Woodbend formation to acquire eight quarter sections under petroleum and natural gas lease.	Triad Oil Co. Ltd.	1,200.00
Located in Township 12, range 17, west of the 4th meridian, comprising 5,120 acres; requiring the drilling of a well into a zone of Mississippian age to acquire eight quarter sections under petroleum and natural gas lease.	Bailey Selburn Oil & Gas Ltd. and Baron's Oil Limited, 50% interest each	2,764.89
Located in Townships 44 and 45, range 17, west of the 4th meridian, comprising 4,320 acres; requiring the drilling of a well into the Ireton member of the Woodbend formation to acquire seven quarter sections under petroleum and natural gas lease.	Texaco Exploration Company	40,320.00
Located in Townships 31 and 32, ranges 18 and 19, west of the 4th meridian, comprising 5,440 acres; requiring the drilling of a well into a zone of Mississippian age to acquire eight quarter sections under petroleum and natural gas lease.	Dome Exploration (Western) Limited	6,557.77

# CROWN RESERVE DRILLING RESERVATIONS PURCHASED (Continued)

Description	Offer Accepted From:	Cash Purchase Price
Located in Townships 16 and 17, ranges 20 and 21, west of the 4th meridian, comprising 6,560 acres; requiring the drilling of a well into the Shunda formation of the Rundle group to acquire nine quarter sections under petroleum and natural gas lease.	Shell Oil Company	6,587.19
Located in Townships 36 and 37, ranges 23 and 24, west of the 4th meridian, comprising 7,680 acres; requiring the drilling of a well into the Leduc member of the Woodbend formation to acquire eleven quarter sections under petroleum and natural gas lease.	Hudson's Bay Oil and Gas Company Limited	151,201.60
Located in Townships 18 and 19, ranges 24 and 25, west of the 4th meridian, comprising 7,200 acres; requiring the drilling of a well into the Banff formation to acquire ten quarter sections under petroleum and natural gas lease.	Texas Pacific Coal and Oil Company, The Pure Oil Company, Merrill Petroleum Limited and New Ranchmen's Oil Co. Ltd., each as to an undivided 25% interest	3,600.00
Located in Township 71, range 14, west of the 5th meridian, comprising 5,280 acres; requiring the drilling of a well into the Banff formation to acquire eight quarter sections under petroleum and natural gas lease.	Shell Oil Company	3,840.00
Located in Township 71, ranges 14 and 15, west of the 5th meridian, comprising 5,120 acres; requiring the drilling of a well into the Banff formation to acquire eight quarter sections under petroleum and natural gas lease.	Shell Oil Company	3,840.00
Located in Township 81, range 15, west of the 5th meridian, comprising 7,200 acres; requiring the drilling of a well into a zone immediately above the Pre-Cambrian granite to acquire eleven quarter sections under petroleum and natural gas lease.	The California Standard Company	7,172.00
Located in Townships 51 and 52, ranges 16 and 17, west of the 5th meridian, comprising 11,840 acres; requiring the drilling of a well into the Slave Point formation to acquire sixteen quarter sections under petroleum and natural gas lease.	Triad Oil Co. Ltd.	15,000.00
Located in Townships 51 and 52, range 17, west of the 5th meridian, comprising 10,560 acres; requiring the drilling of a well into the Slave Point formation to acquire sixteen quarter sections under petroleum and natural gas lease.	Triad Oil Co. Ltd.	10,000.00
Located in Township 87, ranges 21 and 22, west of the 5th meridian, comprising 8,800 acres; requiring the drilling of a well into the zone immediately above the Pre-Cambrian granite to acquire eleven quarter sections under petroleum and natural gas lease.	Bailey Selburn Oil & Gas Ltd.	13,667.67
Located in Township 92, range 21, west of the 5th meridian, comprising 6,400 acres; requiring the drilling of a well into the zone immediately above the Pre-Cambrian granite to acquire ten quarter sections under petroleum and natural gas lease.	Union Oil of California	6,055.00



# CROWN RESERVE DRILLING RESERVATIONS PURCHASED (Continued)

Description	Offer Accepted From:	Cash Purchase Price
Located in Townships 91 and 92, ranges 21 and 22, west of the 5th meridian, comprising 6,400 acres; requiring the drilling of a well into the zone immediately above the Pre-Cambrian granite to acquire ten quarter sections under petroleum and natural gas lease.	Union Oil of California	6,055.00
Located in Township 102, ranges 23 and 24, west of the 5th meridian, comprising 7,680 acres; requiring the drilling of a well into the zone immediately above the Pre-Cambrian granite to acquire eleven quarter sections under petroleum and natural gas lease.	Hudson's Bay Oil and Gas Company Limited and The California Standard Company	8,993.60
Located in Townships 74 and 75, range 1, west of the 6th meridian, comprising 9,920 acres; requiring the drilling of a well into the zone immediately above the Pre-Cambrian granite to acquire fourteen quarter sections under petroleum and natural gas lease.	The California Standard Company	26,088.00
Located in Township 83, ranges 2 and 3, west of the 6th meridian, comprising 5,920 acres; requiring the drilling of a well into the zone immediately above the Mississippian age to acquire eight quarter sections under petroleum and natural gas lease.	Western Decalta Petroleum Limited	3,750.00
Located in Township 82, range 3, west of the 6th meridian, comprising 5,760 acres; requiring the drilling of a well into the zone immediately above the Mississippian age to acquire eight quarter sections under petroleum and natural gas lease.	Western Decalta Petroleum Limited	3,750.00
Located in Townships 11 and 12, ranges 13 and 14, west of the 4th meridian, comprising 5,760 acres; requiring the drilling of a well into the Jefferson formation to acquire eight quarter sections under petroleum and natural gas lease.	Southland Royalty Company	5,760.00
Located in Townships 12 and 13, ranges 13 and 14, west of the 4th meridian, comprising 5,760 acres; requiring the drilling of a well into the Jefferson formation to acquire eight quarter sections under petroleum and natural gas lease.	Southland Royalty Company	5,760.00
Located in Townships 31 and 32, range 15, west of the 4th meridian, comprising 5,760 acres; requiring the drilling of a well into the Wabamun formation to acquire eight quarter sections under petroleum and natural gas lease.	Sunshine Exploration Ltd.	1,280.00
Located in Township 32, ranges 15 and 16, west of the 4th meridian, comprising 6,080 acres; requiring the drilling of a well into the Wabamun formation to acquire eight quarter sections under petroleum and natural gas lease.	Dome Exploration (Western) Limited	3,377.77
Located in Townships 16 and 17, range 20, west of the 4th meridian, comprising 6,080 acres; requiring the drilling of a well into the Shunda formation of the Rundle group to acquire nine quarter sections under petroleum and natural gas lease.	Hudson's Bay Oil and Gas Company Limited	201,065.00



# CROWN RESERVE DRILLING RESERVATIONS PURCHASED (Continued)

Description	Offer Accepted From:	Cash Purchase Price
Located in Township 29, ranges 21 and 22, west of the 4th meridian, comprising 6,720 acres; requiring the drilling of a well into the Leduc member of the Woodbend formation to acquire ten quarter sections under petroleum and natural gas lease.	The Ohio Oil Company	162,003.00
Located in Townships 9, 10 and 11, range 3, west of the 5th meridian, comprising 14,080 acres; requiring the drilling of a well into the Rundle group to acquire sixteen quarter sections under petroleum and natural gas lease.	Home Oil Company Limited	52,000.00
Located in Townships 45, 46 and 47, ranges 5 and 6, west of the 5th meridian, comprising 8,800 acres; requiring the drilling of a well into the Cooking Lake member of the Woodbend formation to acquire twelve quarter sections under petroleum and natural gas lease.	Union Oil Company of California	90,000.00
Located in Townships 50 and 51, ranges 7 and 8, west of the 5th meridian, comprising 6,880 acres; requiring the drilling of a well into a zone of Mississippian age to acquire ten quarter sections under petroleum and natural gas lease.	Pan American Petroleum Corporation	64,066.00
Located in Township 63, ranges 14 and 15, west of the 5th meridian, comprising 10,560 acres; requiring the drilling of a well into the Gilwood Sands of the Elk Point group to acquire sixteen quarter sections under petroleum and natural gas lease.	Sohio Petroleum Company	320,204.80
Located in Townships 83 and 84, range 16, west of the 5th meridian, comprising 6,400 acres; requiring the drilling of a well into the zone immediately above the Pre-Cambrian granite to acquire ten quarter sections under petroleum and natural gas lease.	Bailey Selburn Oil & Gas Ltd.	12,579.89
Located in Township 80, range 18, west of the 5th meridian, comprising 7,520 acres; requiring the drilling of a well into the zone immediately above the Pre-Cambrian granite to acquire eleven quarter sections under petroleum and natural gas lease.	Pan American Petroleum Corporation	37,750.40
Located in Townships 79 and 80, ranges 18 and 19, west of the 5th meridian, comprising 7,840 acres; requiring the drilling of a well into the zone immediately above the Pre-Cambrian granite to acquire eleven quarter sections under petroleum and natural gas lease.	Pan American Petroleum Corporation	74,872.00
Located in Township 89, ranges 19 and 20, west of the 5th meridian, comprising 7,680 acres; requiring the drilling of a well into the zone immediately above the Pre-Cambrian granite to acquire eleven quarter sections under petroleum and natural gas lease.	The British American Oil Company Limited	1,601.67
Located in Townships 71 and 72, range 24, west of the 5th meridian, comprising 10,560 acres; requiring the drilling of a well into the zone immediately above the Pre-Cambrian granite to acquire sixteen quarter sections under petroleum and natural gas lease.	French Petroleum Company of Canada Ltd. and Tennessee Gas Transmission Company	104,526.46

### CROWN RESERVE DRILLING RESERVATIONS PURCHASED (Continued)

Description	Offer Accepted From:	Cash Purchase Price
Located in Townships 30 and 31, ranges 5 and 6, west of the 4th meridian, comprising 4,640 acres; requiring the drilling of a well into the Nisku member of the Winterburn formation to acquire six quarter sections under petroleum and natural gas lease.	Pan American Petroleum Corporation	9,646.36
Located in Townships 23 and 24, ranges 10 and 11, west of the 4th meridian, comprising 5,120 acres; requiring the drilling of a well into the Jefferson formation to acquire seven quarter sections under petroleum and natural gas lease.	Canadian Chieftain Petroleums Ltd.	5,683.20
Located in Townships 62 and 63, ranges 14 and 15, west of the 4th meridian, comprising 4,640 acres; requiring the drilling of a well into the Devonian system to acquire six quarter sections under petroleum and natural gas lease.	Union Oil Company of California	2,400.00
Located in Townships 39 and 40, range 23, west of the 4th meridian, comprising 6,400 acres; requiring the drilling of a well into the Leduc member of the Woodbend formation to acquire ten quarter sections under petroleum and natural gas lease.	Ambassador Oil Corporation	41,200.00
Located in Townships 39 and 40, ranges 24 and 25, west of the 4th meridian, comprising 8,800 acres; requiring the drilling of a well into the Elk Point group to acquire fourteen quarter sections under petroleum and natural gas lease.	The California Standard Company	11,127.89
Located in Townships 38 and 39, range 28, west of the 4th meridian, comprising 7,226 acres; requiring the drilling of a well into the Nisku member of the Winterburn formation to acquire twelve quarter sections under petroleum and natural gas lease.	Texaco Exploration Company	107,520.00
Located in Townships 36 and 37, ranges 1 and 2, west of the 5th meridian, comprising 8,921 acres; requiring the drilling of a well into the Leduc member of the Woodbend formation to acquire fourteen quarter sections under petroleum and natural gas lease.	Clearfield Land Development Company Ltd.	3,519.00
Located in Townships 30, 31 and 32, ranges 2 and 3, west of the 5th meridian, comprising 9,760 acres; requiring the drilling of a well into the Leduc member of the Woodbend formation to acquire sixteen quarter sections under petroleum and natural gas lease.	Triad Oil Co. Ltd.	25,101.00
Located in Townships 27, 28 and 29, ranges 6 and 7, west of the 5th meridian, comprising 11,480 acres; requiring the drilling of a well into the Turner Valley formation of the Rundle group to acquire sixteen quarter sections under petroleum and natural gas lease.	Imperial Oil Limited	756,758.66
Located in Townships 51 and 52, range 8, west of the 5th meridian, comprising 7,680 acres; requiring the drilling of a well into a zone of Mississippian age to acquire eleven quarter sections under petroleum and natural gas lease.	Montreal Trust Company	41,011.00

### CROWN RESERVE DRILLING RESERVATIONS PURCHASED (Continued)

Description	Offer Accepted From:	Cash Purchase Price
Located in Township 52, ranges 8, 9 and 10, west of the 5th meridian, comprising 7,680 acres; requiring the drilling of a well into a zone of Mississippian age to acquire eleven quarter sections under petroleum and natural gas lease.	Montreal Trust Company	81,011.00
Located in Townships 33, 34, 35 and 36, ranges 9, 10 and 11, west of the 5th meridian, comprising 11,680 acres; requiring the drilling of a well into the Elkton member of the Turner Valley formation to acquire sixteen quarter sections under petroleum and natural gas lease.	Hudson's Bay Oil and Gas Company Limited	64,307.20
Located in Townships 36, 37 and 38, ranges 10, 11 and 12, west of the 5th meridian, comprising 11,360 acres; requiring the drilling of a well into the Elkton member of the Turner Valley formation to acquire sixteen quarter sections under petroleum and natural gas lease.	Hudson's Bay Oil and Gas Company Limited	64,307.20
Located in Township 78, range 15, west of the 5th meridian, comprising 7,040 acres; requiring the drilling of a well into the zone immediately above the Pre-Cambrian granite to acquire eleven quarter sections under petroleum and natural gas lease.	Hudson's Bay Oil and Gas Company Limited	1,971.20
Located in Township 84, ranges 17 and 18, west of the 5th meridian, comprising 7,360 acres; requiring the drilling of a well into the zone immediately above the Pre-Cambrian granite to acquire eleven quarter sections under petroleum and natural gas lease.	Canadian Seaboard Oil Company	17,819.00
		<hr/> \$11,918,471.87

### CROWN RESERVE NATURAL GAS LICENCES PURCHASED

Description	Offer Accepted From:	Cash Purchase Price
Comprising 10,560 acres in Township 15, ranges 1 and 2, west of the 4th meridian.	Montreal Trust Company	19,747.20
Comprising 7,169 acres in Townships 11 and 12, ranges 4 and 5, west of the 4th meridian.	Canadian Delhi Oil Ltd.	40,001.01
Comprising 17,600 acres in Townships 24 and 25, ranges 4 and 5, west of the 4th meridian.	Bailey Selburn Oil & Gas Ltd.	6,667.67
Comprising 10,080 acres in Townships 3 and 4, ranges 7 and 8, west of the 4th meridian.	Canadian-Montana Gas Company Limited	32,600.00
Comprising 18,880 acres in Townships 34 and 35, ranges 7 and 8, west of the 4th meridian.	Canadian Export Gas Ltd.	43,333.34
Comprising 24,800 acres in Townships 38, 39 and 40, ranges 1 and 2, west of the 5th meridian.	Tennessee Gas Transmission Company	385,510.00
Comprising 18,240 acres in Townships 79 and 80, ranges 9, 10 and 11, west of the 6th meridian.	Canadian Fina Oil Limited, Royalite Oil Company Limited and Devon-Palmer Oils Ltd.	16,000.00
Comprising 36,800 acres in Townships 23, 24 and 25, ranges 8, 9 and 10, west of the 4th meridian.	Hudson's Bay Oil and Gas Company Limited	28,336.00

### CROWN RESERVE NATURAL GAS LICENCES PURCHASED (Continued)

Description	Offer Accepted From:	Cash Purchase Price
Comprising 12,800 acres in Townships 29, 30 and 31, ranges 27, 28 and 29, west of the 4th meridian.	Hudson's Bay Oil and Gas Company Limited	141,568.00
Comprising 10,400 acres in Townships 34 and 35, ranges 6 and 7, west of the 4th meridian.	Mayfair Oil & Gas Ltd.	47,511.00
Comprising 44,480 acres in Townships 80 and 81, ranges 10 and 11, west of the 6th meridian.	Canadian Fina Oil Limited, Royalite Oil Company Limited and Devon-Palmer Oils Ltd.	56,510.00
		<hr/> \$ 817,784.22

### CROWN RESERVE FRACTIONAL AREA LEASES PURCHASED

Description	Offer Accepted From:	Cash Purchase Price
Portions of Section 7, Township 39, range 26, west of the 4th meridian—30.9 acres.	Imperial Oil Limited	15,063.75
Portions of Section 17, Township 43, range 23, west of the 4th meridian—29.6 acres.	Canadian Export Gas Ltd.	807.78
Portions of Section 16, Township 53, range 25, west of the 4th meridian—86 acres.	Dome Exploration (Western) Limited	1,462.00
Portions of Section 33, Township 48, range 4, west of the 5th meridian—14.1 acres.	Imperial Oil Limited	8,178.00
Portions of Section 5, Township 21, range 28, west of the 4th meridian—34.55 acres.	Shell Oil Company	896.99
Portions of Section 29, Township 21, range 28, west of the 4th meridian—320 acres.	Shell Oil Company	8,307.20
Portions of Section 7, Township 34, range 4, west of the 5th meridian—188.90 acres.	Hudson's Bay Oil and Gas Company Limited	19,020.34
Portions of Section 17, Township 34, range 4, west of the 5th meridian—130.50 acres.	Hudson's Bay Oil and Gas Company Limited	13,140.05
Portions of Section 21, Township 34, range 4, west of the 5th meridian—153.90 acres.	Hudson's Bay Oil and Gas Company Limited	15,496.19
Portions of Section 26, Township 33, range 5, west of the 5th meridian—38 acres.	Hudson's Bay Oil and Gas Company Limited	44,890.92
Portions of Section 26, Township 33, range 5, west of the 5th meridian—10 acres.	Hudson's Bay Oil and Gas Company Limited	17,431.60
Portions of Section 30, Township 27, range 6, west of the 5th meridian—69.4 acres.	Western Leaseholds Ltd.	929.96
Portions of Section 30, Township 20, range 28, west of the 4th meridian—160 acres.	Christie, Mitchell and Mitchell Co.	4,153.60
Portions of Section 24, Township 20, range 29, west of the 4th meridian—160 acres.	Christie, Mitchell and Mitchell Co.	4,153.60
Portions of Section 2, Township 64, range 26, west of the 4th meridian—7.3 acres.	Imperial Oil Limited	1,946.32

### CROWN RESERVE FRACTIONAL AREA LEASES PURCHASED (Continued)

Description	Offer Accepted From:	Cash Purchase Price
Portions of Section 26, Township 46, range 28, west of the 4th meridian—87.9 acres.	Texaco Exploration Company	5,000.00
Portions of Section 1, Township 39, range 27, west of the 4th meridian—27 acres.	Imperial Oil Limited	13,162.50
Portions of Section 13, Township 39, range 27, west of the 4th meridian—21 acres.	Imperial Oil Limited	10,237.50
Portions of Section 23, Township 22, range 2, west of the 5th meridian—7.02 acres.	Western Leaseholds Ltd.	212.43
Portions of Section 13, Township 22, range 2, west of the 5th meridian—45.75 acres.	Hudson's Bay Oil and Gas Company Limited	1,384.40
Portions of Section 13, Township 22, range 2, west of the 5th meridian—103.15 acres.	Hudson's Bay Oil and Gas Company Limited	3,121.32
Portions of Section 31, Township 39, range 26, west of the 4th meridian—42 acres.	Western Leaseholds Ltd.	2,041.62
Portions of Section 29, Township 45, range 6, west of the 4th meridian—10 acres.	Midwest Oil Corporation	2,843.70
Portions of Section 21, Township 43, range 23, west of the 4th meridian—136 acres.	Pan American Petroleum Corporation	3,711.44
Portions of Section 18, Township 39, range 26, west of the 4th meridian—30.0 acres.	Imperial Oil Limited	3,271.50
Portions of Section 13, Township 39, range 27, west of the 4th meridian—8.0 acres.	Imperial Oil Limited	3,900.00
Portions of Section 1, Township 39, range 27, west of the 4th meridian—33 acres.	Imperial Oil Limited and The California Standard Company	15,109.38
		\$ 219,874.09

### CROWN RESERVE NATURAL GAS LEASES PURCHASED

#### (Pursuant to The Mines and Minerals Act Section 280)

Description	Offer Accepted From:	Cash Purchase Price
Portions of Section 5, Township 13, range 6, west of the 4th meridian—47.6 acres.	Frank Millington and Perry Minor	174.55
Portions of Sections 21 and 31, Township 37, range 2, west of the 4th meridian—116.7 acres.	Provo Gas Producers Limited	1,359.00
Portions of Sections 1 and 5, Township 37, range 3, west of the 4th meridian—96.8 acres.	Provo Gas Producers Limited	2,007.00
Portions of Sections 30 and 32, Township 37, range 4, west of the 4th meridian—960 acres.	Provo Gas Producers Limited	13,400.00
Section 12, Township 38, range 4, west of the 4th meridian—640 acres.	Provo Gas Producers Limited	7,450.00
Portions of Sections 1 and 17, Township 36, range 6, west of the 4th meridian—145.7 acres.	Provo Gas Producers Limited	4,253.00

## CROWN RESERVE NATURAL GAS LEASES PURCHASED

(Pursuant to The Mines and Minerals Act  
(Section 280))

Description	Offer Accepted From:	Cash Purchase Price
Portions of Section 3, Township 36, range 7, west of the 4th meridian—72.7 acres.	Provo Gas Producers Limited	2,033.00
Portions of Section 1 and all of Section 2, Township 37, range 7, west of the 4th meridian—727.2 acres.	Provo Gas Producers Limited	12,226.00
		<hr/> \$ 42,902.55

## CROWN RESERVE NATURAL GAS LEASES PURCHASED

(Pursuant to The Mines and Minerals Act  
Section 282 Subsection [2] Clause [a])

Description	Offer Accepted From:	Cash Purchase Price
Portions of Sections 29 and 32, Township 56, range 6, west of the 4th meridian—640 acres.	Elk Point Gas, Ltd.	\$ 446.00
		<hr/> \$ 446.00

## CROWN RESERVE NATURAL GAS LEASES PURCHASED

(Pursuant to The Mines and Minerals Act  
Section 282 Subsection [2] Clause [b])

Description	Offer Accepted From:	Cash Purchase Price
Portions of Section 1, Township 56, range 27, west of the 4th meridian—8 acres.	Imperial Oil Limited	325.00
Portions of Section 20, Township 31, range 5, west of the 4th meridian—322 acres.	Canadian Export Gas Ltd.	3,300.00
Portions of Section 31, Township 38, range 20, west of the 4th meridian—26.2 acres.	Amurex Oil Company and Canadian Superior Oil of California, Ltd. as to each an undivided 50% interest	535.53
Portions of Section 27, Township 54, range 22, west of the 4th meridian—20 acres.	Mid-Western Industrial Gas, Ltd.	918.75
Portions of Section 35, Township 35, range 20, west of the 4th meridian—25 acres.	The British American Oil Company Limited	742.19
		<hr/> \$ 5,821.47

## CROWN RESERVE PETROLEUM LEASES PURCHASED

(Pursuant to The Mines and Minerals Act  
Section 280)

Description	Offer Accepted From:	Cash Purchase Price
Comprising 10,238 acres in Townships 24 and 25, range 12, west of the 4th meridian.	Hudson's Bay Oil and Gas Company Limited and Canadian Delhi Oil Ltd.	204,760.00
Comprising 15,034 acres in Townships 24 and 25, ranges 12 and 13, west of the 4th meridian.	Hudson's Bay Oil and Gas Company Limited and Canadian Delhi Oil Ltd.	300,680.00
		<hr/> \$ 505,440.00



*Reservations.*—During the fiscal year 259 reservations were issued covering an area of 13,078,621 acres and at the close of the year 847 reservations were active containing an area of 48,398,532 acres.

The revenue from reservation fees amounted to \$80,206.00, for extending reservations amounted to \$6,931,071.96 and the revenue from bonuses accepted by the Director of Mineral Rights at sales of petroleum and natural gas reservations by tender amounted to \$1,859,827.47.

Credit of not in excess of fifty per cent of the approved expenditures incurred in geophysical examination including drilling on petroleum and natural gas reservations may apply to the rental for one year of any lease or leases acquired out of the reservations and during the fiscal year under review rentals of \$3,501,306.45 were satisfied from such expenditures.

*Crown Reserve Drilling Reservations.*—During the fiscal year 142 drilling reservations were issued covering an area of 1,066,852 acres and at the close of the year 159 were active containing an area of 1,196,017 acres.

The revenue from drilling reservation fees amounted to \$35,500.00, from rentals \$537,746.09 and the revenue from accepted offers at sales of Crown reserve drilling reservations amounted to \$11,918,471.87.

Credit may be granted for expenditures incurred in drilling a well on a drilling reservation and applied in satisfaction of the first year's rental. During the fiscal year rental on leases acquired out of the reservations of \$67,113.70 were satisfied by credit.

*Natural Gas Licences.*—Fourteen natural gas licences covering an area of 204,968 acres were issued during the fiscal year and at the close of the year fifteen licences were active containing an area of 305,117 acres. The revenue from fees was \$3,250.00 and from rentals was \$22,773.90. Credit may be granted for expenditures incurred in drilling a well on a natural gas licence and applied in satisfaction of the first year's rental. During the fiscal year rentals on leases acquired out of the licences of \$49,124.28 were satisfied by credit.

The natural gas licence regulations and the Crown reserve natural gas licence regulations were amended in August, 1957 and December, 1957 respectively. These regulations provided that where a discovery of oil was made in any licenced or leased zone, the licensee or lessee was entitled to acquire a lease of the undisposed of petroleum and natural gas rights in the legal subdivision or legal subdivisions in the quarter section in which the discovery was made, upon the surrender out of the licence or lease an area equal to fifteen times the area to be acquired under petroleum and

natural gas lease in the discovery, adjoining or cornering sections comprised within the licence or lease. Because of the increased size of some of the spacing units for oil, the lease of the petroleum and natural gas rights that may be acquired was amended to be a lease of petroleum and natural gas rights that are the property of the Crown in the quarter section in which the discovery was made. The surrender out of the licence or lease was reduced from fifteen to three times the area to be acquired under petroleum and natural gas lease.

*Crown Reserve Natural Gas Licences.*—Eleven Crown reserve natural gas licences covering an area of 211,809 acres were issued during the fiscal year. At the close of the year thirteen licences were active, containing an area of 298,369 acres. The revenue from fees was \$2,750.00, from rentals \$25,412.90 and the revenue from accepted offers at sales of Crown reserve natural gas licences amount to \$817,784.22. Credit may be granted for expenditures incurred in drilling a well on a Crown reserve natural gas licence and applied in satisfaction of the first year's rental. During the fiscal year rentals on leases acquired out of the licences of \$2,936.80 were satisfied by credit.

*Natural Gas Leases.*—The granting of natural gas leases continued and during the fiscal year a total of 38 leases were issued covering 288,869 acres, and at the close of the fiscal year a total of 314 leases were in existence comprising an area of 1,561,728 acres. Twenty-four of the leases were granted out of natural gas licences or Crown reserve natural gas licences and permit the recovery of natural gas from one or more zones specified in the lease. One lease authorizing the recovery of natural gas from the Upper Mannville zone, was issued, being considered essential in the operation of a natural gas utility and the remaining thirteen leases authorizing the recovery of natural gas from the Medicine Hat, Viking and Basal Blairmore zones were issued comprising the balances of spacing units to permit natural gas wells that are capable of commercial production to be operated at full production allowables.

The annual rental of a natural gas lease is thirty-three and one-third cents an acre and while an adequate market or a market in which the lessee may participate is not available, the annual rental is reduced to ten cents an acre. The revenue from fees was \$390.00 and from rental \$280,002.58.

## COAL

In the fiscal year, nineteen leases were issued containing 8,278 acres, being made up of new and renewal and second renewal leases. There are now 498 active leases comprising 151,447 acres. There were eight road allowance coal mining leases issued and there are now 144 active. The revenue received from fees was \$122.50 and from lease rentals \$76,687.59.

Crown royalties collected during the fiscal year were \$109,223.27 and the following tonnage of coal, subject to royalty was mined:

	Tons
Coal Leases .....	1,058,520
Coal Lands and Mineral Sales .....	273,361
<b>TOTAL</b> .....	<u>1,331,881</u>

## QUARRYING

Eight quarrying leases comprising a total of 2,103 acres were issued during the fiscal year, two of which were for the removal of limestone, two for bentonite, one for marl, one for shale, one for marl, clay and volcanic ash and one for limestone.

Extraction of 1,097,396 tons of limestone and shale, 12,737 cubic yards of clay, seventeen tons of dolomitic siltstone and 1,961 tons of sandstone from Crown leases was reported and at the close of the fiscal year 56 quarrying leases containing an area of 8,954 acres were active.

## BITUMINOUS SANDS

One bituminous sands lease, comprising a total of 2,094 acres was issued during the fiscal year, and at the close of the year twelve leases were active containing an area of 100,099 acres. Fifty bituminous sands prospecting permits were issued during the year, and 22 were renewed. There were 72 permits active at the close of the year.

The regulations governing the disposition of bituminous sands rights were amended in December, 1957 to permit a person to hold two permits by application and the prohibition in transferring permits was removed.

## QUARTZ

Twenty-three claims were recorded during the year. Eight existing claims were continued for a further year. The claim in the Drumheller district for the recovery of bentonite was one of those continued.

## PLACER

Nine placer claims were recorded and 42 were renewed for another year. There were 307.6 ounces of gold and 28.3 ounces of silver recovered at three gravel plants.

## SODIUM CHLORIDE (Common Salt)

During the fiscal year the plant near Lindberg operated and the reported extraction was 34,958 tons, a decrease of 1,943 tons over the previous year.

## SULPHUR

The sulphur plants at Jumping Pound and Turner Valley produced 39,600 short tons during 1957, an increase of 6,288 tons over the previous year. The Redwater plant produced 2,492 tons, an increase of 2,340 tons over the previous year. The plant at Pincher Creek commenced operations in February, 1957 and 58,614 tons were produced. The total production of sulphur in Alberta for 1957 was 100,706 tons, an increase of 67,242 tons over the previous year.

## IRON PROSPECTING PERMITS

During the year under review one iron prospecting permit comprising 19,840 acres was issued by the Department. Seven permits were cancelled leaving two permits comprising 33,600 acres active at the end of the year.

## MINERAL SALES

A new section 24b was added to The Mines and Minerals Act at the first session of the Legislative Assembly in 1955. It provided a means whereby minerals in roadways acquired by the Crown many years ago may be returned to the adjacent owner. During the fiscal year nine notifications were issued pursuant to section 24b known as a mineral sale at a nominal consideration of \$1.00.

## WELL LICENCES

There were 1,776 well licences issued during the fiscal year for the drilling of oil and gas wells, structure test holes, injection wells and water wells.

## DRILLING STATISTICS

The drilling and production of petroleum and natural gas wells in the Province are administered by the Oil and Gas Conservation Board, 603 - 6th Avenue South West, Calgary, Alberta, and particulars as to drilling activity, production and statistical data are included in weekly, monthly and annual reports issued by the Board.

## GEOPHYSICAL AND GEOLOGICAL EXPLORATION

A person desiring to undertake geophysical or subsurface geological exploration must obtain a licence from the Department. The applicant before the issue of the licence must furnish a cash deposit to the Provincial Treasurer in the sum of \$1,000.00 to insure that operations are conducted in accordance with The Mines and Minerals Act and the regulations governing geophysical exploration. During the fiscal year 172 licences were issued and they will expire on the 31st of March following, unless renewed.

The regulations governing operations by seismic, gravimetric, magnetic, electrical, geochemical, test drilling or other method which may be used for the purpose of exploring the subsurface require the operator to obtain an annual permit to operate geophysical equipment and a fee of \$25.00 is required for each permit. During the fiscal year 13 such permits were issued and 83 renewed.

There are four investigators and each is allocated an area of the Province and he inspects crews in his area. When it is represented to the Department that a crew has interfered with the right of a person the matter is investigated and in the event that damage or other interference has resulted an investigator endeavours to assist the person affected and the crew in arriving at a settlement.

## UNIT OPERATION OF MINERALS

During the fiscal year six agreements were entered into for unit operation of petroleum and natural gas properties. One agreement pertained to the Madison limestone in the Pincher Creek Field in 20,572 acres in townships 3 and 4, ranges 28 and 29, west of the 4th meridian. One agreement pertained to the Devonian formation in the Okotoks Field in twenty-two sections in township 21, ranges 28 and 29, west of the 4th meridian. One agreement pertained to the Viking sand in the Joffre Field in townships 37, 38 and 39, ranges 25, 26 and 27, west of the 4th meridian. One agreement pertained to the Leduc zone in the Wizard Lake Field in four and three-quarter sections in township 48, range 27, west of the 4th meridian. One agreement pertained to the Viking member of the Colorado formation in the Provost Field in 237,440 acres in townships 35 to 38, ranges 2 to 7, west of the 4th meridian. One agreement pertained to the D-3 in the Sturgeon Lake Field in nine sections in townships 71 and 72, ranges 23 and 24, west of the 5th meridian.

In order to permit operators of petroleum and natural gas properties to comply with schemes directed or approved by the Oil and Gas Conservation Board, 31 agreements were made permitting the performance of the schemes. One agreement per-



mitted the injection of raw gas, liquid petroleum gases and water for pressure maintenance purposes into the Cardium formation of the Pembina Field. Two agreements permitted the injection of gas for pressure maintenance purposes into the Cardium formation of the Pembina Field. Thirteen agreements authorized the return of salt water produced with petroleum to subsurface formations in the Battle, Erskine, Glen Park, Grassy Lake, Hughenden, Joarcam, Leduc-Woodbend, Malmo, Sturgeon Lake South, Sundre and West Drumheller fields. Fifteen agreements permitted the injection of water for pressure maintenance purposes into the Cardium formation of the Pembina Field.

### STAFF

At the close of the fiscal year the Division staff numbered 51 employees all of whom are to be commended for the very capable performance of their duties throughout the year.

During the year Mr. A. E. Kynnersley resigned as Supervisor of Revenue. Mr. D. R. Jordan was promoted to fill that position and Mr. F. J. Holubowich was appointed Assistant Supervisor of Revenue.



## Technical Division

*Report of the Superintendent of the Technical Division*

J. M. NOVAK

The following report summarizes the operations of the Technical Division for the fiscal year ending March 31, 1958.

### *DRAUGHTING, LAND DESCRIPTIONS AND GENERAL*

The series of maps covering approximately forty-eight townships for each area and on a scale of three-quarters of an inch to the mile were drawn covering the following new areas:

JOFFRE—Townships 37 to 44, Ranges 23 to 28, West of the 4th Meridian.

KEYSTONE—Townships 45 to 52, Ranges 1 to 5, West of the 5th Meridian.

Eight new maps were drawn to a scale of two inches to the mile on transparent township plans covering the following fields:

Gordondale, Hamelin Creek, Hughenden, Normandville, Red Earth, Rosebud and Youngstown.

All new maps drawn and previously drawn are subject to showing the locations of wells as well licences are granted. When the status of a well changes, it is adjusted on the maps. The limits of fields as established by the Oil and Gas Conservation Board are also included on the maps.

A map of the Province showing the location of oil and gas field maps published to March 31, 1958 is included in this report.

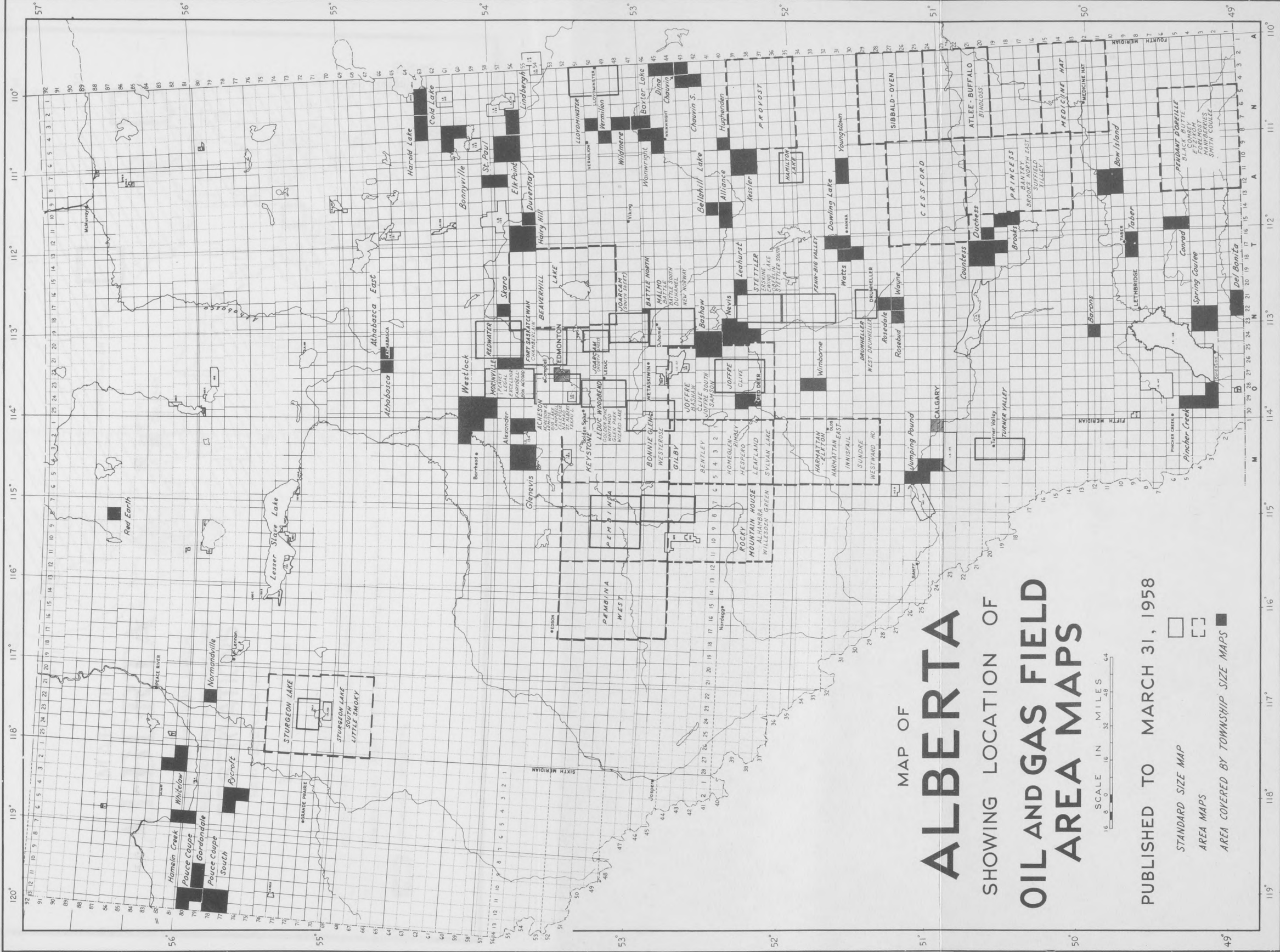
A total of 4,669 maps was distributed by the department which is a decrease of 439 from the 5,108 maps distributed in the previous year. A list of maps is available indicating the price of each map.

This Division maintains a weekly service at a cost of \$75.00 a year which entitles a subscriber to a sketch of each new reservation or gas licence issued and each reservation or gas licence amended, cancelled or converted to lease. The number of subscribers increased from 63 to 66 and 52,000 copies of sketches were prepared and mailed showing an increase of approximately 11,000 over last year's total.

During the year, 1,694 applications for licences to drill wells were recommended for issue by the Oil and Gas Conservation Board, which is a decrease of 263 from the 1,957 applications dealt with in the previous year. The Division, upon receipt of each application, searches the ownership of Crown minerals in the spacing unit allotted to the well.

Land descriptions were prepared for all mineral dispositions, as well as descriptions for recommendations to council.





MAP OF  
**ALBERTA**  
SHOWING LOCATION OF  
**OIL AND GAS FIELD  
AREA MAPS**

SCALE IN MILES  
0 16 32 48 64

PUBLISHED TO MARCH 31, 1958

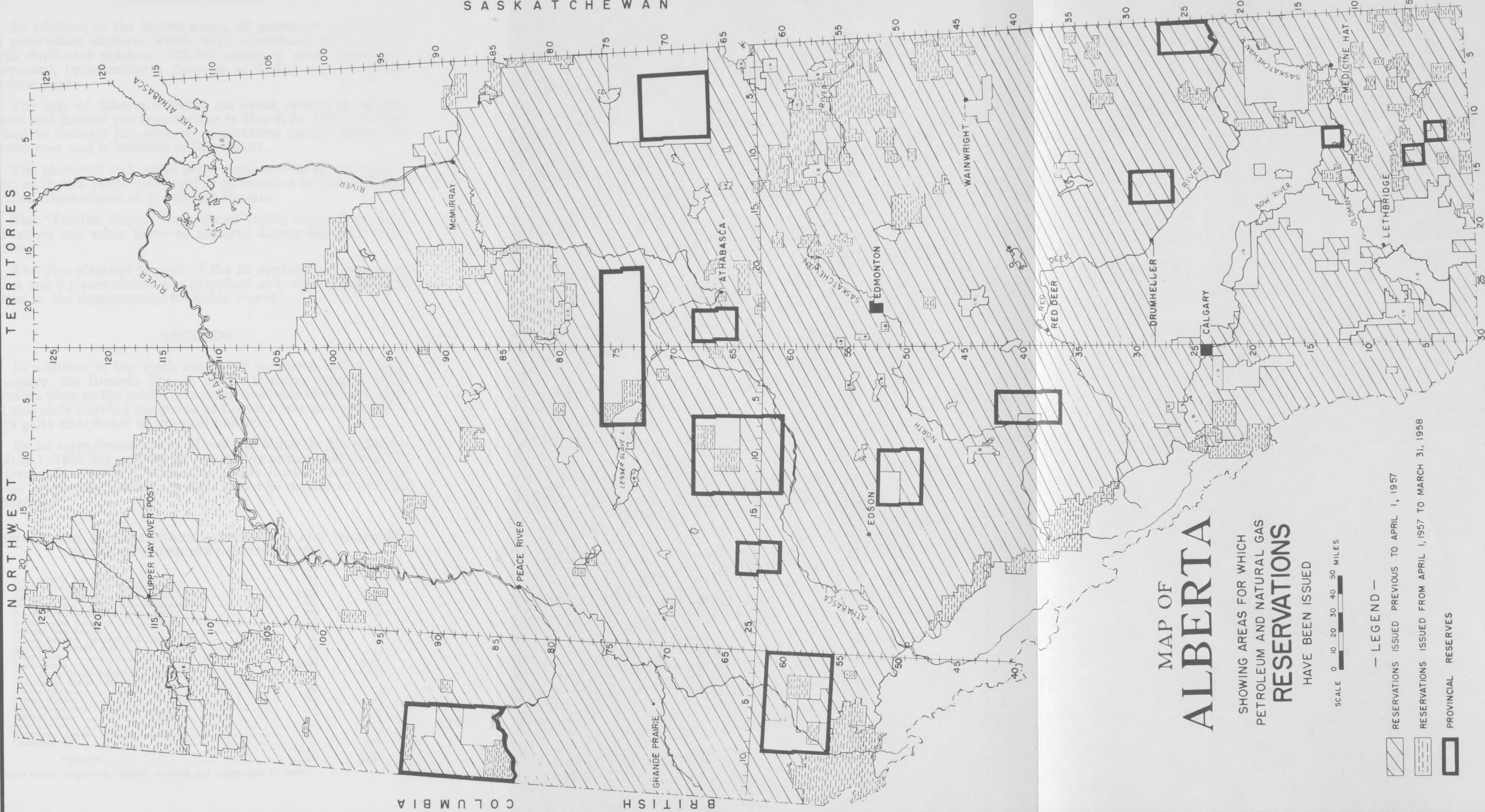
- STANDARD SIZE MAP
- AREA MAPS
- AREA COVERED BY TOWNSHIP SIZE MAPS





TERRITORIES

NORTH WEST



# MAP OF ALBERTA

SHOWING AREAS FOR WHICH  
PETROLEUM AND NATURAL GAS  
RESERVATIONS  
HAVE BEEN ISSUED

SCALE 0 10 20 30 40 50 MILES

— LEGEND —

- RESERVATIONS ISSUED PREVIOUS TO APRIL 1, 1957
- RESERVATIONS ISSUED FROM APRIL 1, 1957 TO MARCH 31, 1958
- PROVINCIAL RESERVES

UNITED STATES





In addition to the 52,000 copies of petroleum and natural gas reservation sketches which were reproduced on the multi-graph duplicator machine, 522,400 copies of other items were reproduced, representing a decrease of 41,526 copies over the previous year.

The map of Alberta showing the areas covered by all petroleum and natural gas reservations to March 31, 1957, has been revised to indicate the area of reservations issued during the present year and is included in this report.

The photostat and ozalid print requirements of the Department, as in past years, continued to be supplied by the Technical Division, Department of Lands and Forests.

The "Verifax Copier" reproduced 16,588 copies from original letters and other items as required during the year under review.

The plan attached to each of the 23 applications for quartz claims and 9 placer claims was examined and, when satisfactory, plotted in the departmental township record.

## RECORDS

In addition to the work completed as shown in the tables hereunder, the Records Branch of the Division supplied 3,661 township plots to the public indicating available Crown minerals and also plots showing the status of Crown minerals compared to 2,939 plots distributed in the previous year.

By an amendment to The Mines and Minerals Act effective on July 1, 1957 the practice of registering assignments was discontinued. In order to now transfer a lease, licence, permit, reservation or other agreement a transfer must be registered with the Department.

### \*DISPOSITIONS, CANCELLATIONS, ASSIGNMENTS AND TRANSFERS RECORDED IN THE TOWNSHIP REGISTERS

	1956-57	1957-58
Coal Mining Leases .....	45	64
Road Allowance Coal Mining Leases .....	35	20
Petroleum and Natural Gas Leases .....	4,680	5,464
Petroleum and Natural Gas Reservations .....	481	581
Crown Reserve Drilling Reservations .....	155	220
Natural Gas Licences .....	32	28
Natural Gas Leases .....	40	41
Crown Reserve Natural Gas Licences .....	20	20
Quarrying Leases .....	25	17
Notifications .....	7	22
Assignments .....	5,686	1,247
Bituminous Sands Prospecting Permits .....	22	50
Bituminous Sands Leases .....	2	1
Quartz Claims .....	107	8
Placer Claims .....	104	16
Iron Prospecting Permits .....	8	8
Mineral Sales .....	1	9
Salt Leases .....	.....	1
Petroleum Leases .....	.....	2
Transfers .....	.....	2,824
TOTALS .....	11,450	10,643

\*Includes Issued, reinstated, divided, renewed and certificates of work.

## DEPARTMENT OF MINES AND MINERALS

## NUMBER OF AGREEMENTS ASSIGNED

	1956-57	1957-58
Petroleum and Natural Gas Lease .....	4,795	1,148
Petroleum and Natural Gas Reservation .....	761	86
Natural Gas Licence .....	1	.....
Natural Gas Lease .....	76	3
Coal Lease .....	18	7
Quarrying Lease .....	3	.....
Permit to Operate Geophysical Equipment .....	1	.....
Geophysical Licence .....	11	.....
Bituminous Sands Lease .....	5	.....
Crown Reserve Drilling Reservation .....	14	2
Crown Reserve Natural Gas Licence .....	1	.....
Iron Prospecting Permit .....	.....	1
TOTALS .....	5,686	1,247

## NUMBER OF AGREEMENTS TRANSFERRED

	1957-58
Petroleum and Natural Gas Lease .....	2,425
Petroleum and Natural Gas Reservation .....	300
Coal Mining Lease .....	5
Road Allowance Coal Mining Lease .....	1
Quarrying Lease .....	3
Natural Gas Lease .....	12
Natural Gas Licence .....	3
Crown Reserve Natural Gas Licence .....	1
Bituminous Sands Lease .....	1
Bituminous Sands Prospecting Permit .....	28
Crown Reserve Drilling Reservation .....	29
Geophysical Licence .....	8
Geophysical Permit .....	7
Agreement Scheme .....	1
TOTAL .....	2,824

## NUMBER OF DOCUMENTS FILED

Type of Document	1956-57	1957-58
Mechanic's Lien .....	14	8
Discharge of Mechanic's Lien .....	9	8
Lis Pendens .....	3	1
TOTALS .....	26	17

A comparison of the filing activity during the year under review and the previous year is shown on the following schedule of files cancelled and new files opened.

## NEW FILES OPENED AND FILES CANCELLED

Type of File	Opened 1956-57	Cancelled 1956-57	Opened 1957-58	Cancelled 1957-58
Unearned Increment Tax .....	.....	.....	.....	5
Lease, Reservation, Permit, etc. ....	4,623	2,038	4,461	2,054
Company .....	144	1	95	3
Coal Royalty .....	19	12	29	30
General .....	300	5	184	4
Alienated .....	20	.....	23	.....
Well Deposit .....	35	.....	37	.....
Unit .....	2	.....	5	1
Structure Test .....	5	.....	9	.....
Water Well .....	7	.....	25	.....
Petroleum and Natural Gas Royalty .....	1,027	109	767	74
Battery .....	169	8	110	45
Group .....	8	5	14	.....
Geophysical Licence .....	159	2	149	2
Geophysical Licence Deposit .....	10	51	16	6
Permit to Operate Geophysical Equipment .....	28	8	12	25
Pipe Line Permits .....	.....	.....	2,600	.....
Scheme .....	33	1	38	.....
Power of Attorney .....	13	1	12	.....
TOTALS .....	6,602	2,241	8,586	2,249

Twenty-two notifications were issued during the year, of which sixteen returned minerals underlying road diversions to owners of the adjacent minerals, one completed an exchange of minerals, two transferred minerals to Her Majesty in the right of Canada and three were issued to correct patents.

During the nine years of the operation of the Department one hundred and three notifications for minerals have been issued.



# Mineral Tax Division

## *Report of the Superintendent*

V. L. SCOTT

Revenue from producing area tax of \$1,232,795.31 for the fiscal year ending March 31, 1958 compared with \$1,070,380.73 for the preceding year shows an increase of \$162,414.58. The mill rate for the 1957 assessment was again established at eight mills on the dollar which has been the prevailing rate since 1947.

Acreage tax for the year 1957 based on 1½ cents per acre resulted in revenue of \$282,057.60 as against \$272,883.90 for the previous year, an increase of \$9,173.70.

With the amendment of The Mineral Taxation Act, there are now two types of producing areas. Where in an area there are several wells on freehold properties a producing area is established by the Minister embracing the area including the wells. The other type of producing area is the quarter section on which a well or mine is located and in instances where the wells or mines on freehold properties are sparsely located, the assessment is confined to the quarter sections on which they are located. As a result several ministerial producing areas were discontinued.

Listed hereunder are all producing areas designated by Ministerial Order showing the number of parcels assessed, minerals assessed and the assessed value of each producing area.

Producing Area	Parcels Assessed	Principal Mineral	Assessed Value
Acheson	21	Petroleum	\$ 5,241,355.92
Bonnie Glen	20	Petroleum	16,163,603.34
Fenn-Big Valley	46	Petroleum	13,296,304.92
Joarcam	68	Petroleum	8,781,030.04
Joffre	33	Petroleum	5,633,877.81
Jumping Pound	56	Natural Gas	964,307.63
Leduc	279	Petroleum	36,439,598.99
Medicine Hat-Redcliff	107	Natural Gas	377,559.62
Redwater	16	Petroleum	15,116,619.72
Stettler	11	Petroleum	2,695,773.66
Turner Valley	58	Petroleum and Natural Gas	5,840,484.67
Viking-Kinsella	361	Natural Gas	1,680,013.18
Westerose	5	Petroleum	5,934,075.62
Wizard Lake	6	Petroleum	10,998,173.30

In addition to producing areas designated by Ministerial Order, there are 550 quarter sections on which a well or mine is located and the principal minerals assessed were petroleum, natural gas and coal with a total assessed value of \$22,331,542.25.

Schedule A of the Act was amended by striking out the proviso to paragraphs 1 and 2. This resulted in the assessment of a well which has produced for a part only of the preceding year being based on the actual production of petroleum or natural gas from the well during the preceding year, rather than on the amount of petroleum or natural gas which the well would have

produced had it been producing for the full year at the same rate as it produced during the part of the year it was on production.

Under the heading of parcels assessed are the number of items appearing on the assessment roll and each parcel relates to the area contained in a certificate of title. In determining the assessed value of a parcel, each spacing unit on which a well has been brought into production is calculated separately; consequently, several calculations may be made in arriving at the assessment for petroleum in a parcel containing minerals in a section of land.

The revenue derived from the taxation of minerals from the enactment of the statute in 1941 until March 31st, 1949 collected by the Department of Lands and Mines was \$1,921,180.47 and revenue collected by the Department of Mines and Minerals from April 1, 1949 is shown in the following tabulation:

Year	Mill Rate	Producing	Per Acre	Acreage Tax	Fees	Total
1949-50	8	\$ 452,838.16	1½¢	\$297,883.10	\$ 286.50	\$ 751,007.76
1950-51	8	526,029.61	1½¢	307,062.62	511.00	833,603.23
1951-52	8	444,293.91	1½¢	323,185.71	2,320.10	769,799.72
1952-53	8	572,671.45	1½¢	310,285.08	3,204.00	886,160.53
1953-54	8	717,352.55	1½¢	283,853.18	1,055.50	1,002,261.23
1954-55	8	1,031,913.72	1½¢	277,842.74	1,467.00	1,311,223.46
1955-56	8	1,031,802.40	1½¢	264,496.50	914.50	1,297,213.40
1956-57	8	1,070,380.73	1½¢	272,883.90	1,101.50	1,344,366.13
1957-58	8	1,232,795.31	1½¢	282,057.60	1,056.50	1,515,909.41

\$9,711,544.87

A further amendment to The Mineral Taxation Act exempted the payment of acreage tax on minerals in a certificate of title with respect to a tract wholly within the boundaries existing at the 31st day of December, 1956 of any city, town or village. Where production of a mineral is taken from a tract within a city, town or village, that mineral is assessed as a producing area.

During the fiscal year there were 2,113 mineral tax certificates issued, resulting in revenue of \$1,056.50. For a fee of fifty cents, anyone may obtain a mineral tax certificate, showing whether or not all taxes in respect of the minerals described in a certificate of title have been paid, and if not, the amount of current taxes and arrears payable with respect to the mineral or minerals.



## Accounting Division

*Report of the Administrative Accountant and Personnel Officer*

W. E. SHILLABEER

A surplus of \$123,560,526.66 on Income Account was shown for the fiscal year ending March 31st, 1958.

Net Revenue on Income Account amounted to \$125,023,032.91.

Gross Receipts from all sources amounted to \$134,941,659.02.

Expenditure on Income Account for the year amounted to \$1,462,506.25. Particulars of expenditure may be found in Statement "C".

As at March 31st, 1958 there were 34,425 Accounts Receivable as compared with 31,651 as at March 31st, 1957. The number of active accounts as at March 31st, 1958 is made up as follows:

	No. of Accounts Statement A
Petroleum and Natural Gas Leases, Rental .....	27,870
Petroleum and Natural Gas Leases, Royalty .....	1,549
Petroleum and Natural Gas Reservations .....	886
Petroleum and Natural Gas Drilling Reservations .....	167
Natural Gas Licences .....	16
Natural Gas Leases .....	321
Crown Reserve Natural Gas Licences .....	11
Coal Leases, Rental .....	601
Coal Leases, Royalty .....	100
Registration of Assignment Tax .....	288
Mineral Tax (Producing Area) .....	2,433
Mining Leases (Miscellaneous) .....	183
	<hr/>
	34,425

There were 2,300 accounts cancelled, closed, transferred or paid in full and 5,074 accounts opened.

### INDEX TO STATEMENTS

A—Statement of Receipts from all sources.

B—Statement of Receipts—Income Account.

C—Statement of Expenditure by Appropriation and Character.

D—Statement of Net Receipts by Division.

E—Statement of Receipts—School Minerals.

F—Statement of Receipts and Expenditure.

G—Statement of Provincial Minerals Revenue by Fiscal Years received by the Province for the period April 1st, 1949 to March 31st, 1958.

H—Statement of School Minerals Revenue by Fiscal Years received by the Province for the period April 1st, 1949 to March 31st, 1958.

Statement A

**STATEMENTS OF RECEIPTS FROM ALL SOURCES**  
From April 1st, 1957 to March 31st, 1958

	Gross Receipts	Refunds	Net Receipts
Income Account .....	\$125,103,744.03	\$ 80,599.36	\$125,023,144.67
Reimbursement of Previous Year's Expenditure .....	35.80	.....	35.80
Suspense (Unapplied receipts carried forward, subject to refund) .....	9,837,879.19	8,574,073.27	1,263,805.92
	<u>\$134,941,659.02</u>	<u>\$8,654,672.63</u>	<u>\$126,286,986.39</u>

Statement B

**STATEMENT OF RECEIPTS INCOME ACCOUNT**  
From April 1st, 1957 to March 31st, 1958

**INCOME ACCOUNT:**

	Gross Receipts	Refunds	Net Revenue
<b>PROVINCIAL MINERALS:</b>			
Coal Fees, Rentals, etc. ....	\$ 75,199.17	197.50	\$ 75,001.67
Coal Royalty .....	102,601.90	.....	102,601.90
Coal Mines Act Sundry Revenue ....	3,050.80	10.50	3,040.30
Petroleum and Natural Gas Fees, Rentals, etc. ....	29,350,207.52	41,145.53	29,309,061.99
Petroleum and Natural Gas Royalty ..	30,371,478.23	18,990.37	30,352,487.86
Crown Reserve Sales .....	56,508,696.49	.....	56,508,696.49
Mining Miscellaneous .....	751,364.30	9,835.41	741,528.89
<b>SCHOOL MINERALS:</b>			
Coal Fees, Rentals, etc. ....	1,808.42	.....	1,808.42
Coal Royalty .....	6,621.37	.....	6,621.37
Petroleum and Natural Gas Fees, Rentals, etc. ....	1,737,611.63	2,602.40	1,735,009.23
Petroleum and Natural Gas Royalty ..	2,464,188.10	4,541.37	2,459,646.73
Crown Reserve Sales .....	2,133,139.64	.....	2,133,139.64
Mining Miscellaneous .....	9,335.62	.....	9,335.62
<b>MINERAL TAXATION ACT:</b>			
Mineral Tax .....	1,517,572.69	1,663.28	1,515,909.41
<b>MISCELLANEOUS (Casual) .....</b>	<u>70,756.39</u>	<u>1,613.00</u>	<u>69,143.39</u>
<b>TOTAL INCOME ACCOUNT</b> (Carried to Statement A) .....	<u>\$125,103,632.27</u>	<u>\$ 80,599.36</u>	<u>\$125,023,032.91</u>

Statement C

EXPENDITURE CLASSIFIED BY APPROPRIATIONS AND CHARACTER  
 FOR THE YEAR ENDED MARCH 31st, 1958  
 INCOME ACCOUNT

SERVICE	2002 Deputy Minister's Office	2003 Accounts Division	2005 Geological Division	2006 Mines Division	2007 Mineral Rights Division	2008 Mineral Tax Division	2009 Petroleum and Natural Gas Cons. Board	2010 Technical Division	2011 Postage	2012 Printing, Stationery and Office Supplies	2013 Administration Gas Resources Preservation Act	2014 Right of Entry Arbitration Board	2015 Supervisory and Safety Training Program	2016 Geophysical Branch	2017 Abandonment of Mining Properties	Total
Advertising .....					27,575.55			37.80								27,613.35
Automobiles .....												39.03				39.03
Books and Binding .....	435.36	36.30		51.86	109.86	51.8		790.70				84.29		20.00		1,580.23
Equipment .....		294.74			1,549.45	610.5		426.60						80.80		2,962.18
Examinations .....				729.78												729.78
Freight, Express and Cartage .....		349.10														349.10
Grants .....													14,500.00			14,500.00
Miscellaneous Supplies and Expenses .....	366.18	59.19		32.89	402.63	198.10	595,973.10	8,175.13			2,058.53	187.96		30.99	105,405.52	712,890.22
Newspapers and Periodicals .....	430.10			20.47	70.00	6.00		103.00				42.30				671.87
Postage .....				80.94					9,241.20			770.64				10,092.78
Printing and Stationery .....				2,768.01						22,235.33		1,055.53				26,058.87
Rates, Rentals and Insurance .....	62.40			124.80								196.85		62.40		446.45
Repairs and Replacements .....	299.14	619.97		283.62	658.97	433.5		685.25				537.93		17.29		3,535.75
Salaries .....	35,515.53	70,708.72	2,820.00	63,661.90	161,201.67	61,400.9		144,340.79				53,540.44		23,311.78		616,501.73
Special Services .....				4.50												4.50
Telegrams and Telephones .....	733.75	44.45		272.82	2,177.09	180.2		516.00				400.42		1,030.00		5,354.73
Travelling Expenses .....	1,828.18	200.72		7,158.19	3,374.34	2,973.0		711.24				5,987.43		16,942.55		39,175.68
TOTAL: Income Account .....	39,670.64	72,313.19	2,820.00	75,189.78	197,119.56	65,854.2	595,973.10	155,786.51	9,241.20	22,235.33	2,058.53	62,842.82	14,500.00	41,495.81	105,405.52	1,462,506.25



Statement D

## STATEMENT OF NET RECEIPTS BY DIVISIONS

For Fiscal Year Ending March 31st, 1958

## INCOME ACCOUNT:

Mineral Rights Division .....	\$123,434,939.81
Mineral Tax Division .....	1,515,909.41
Mines Division .....	3,040.30
Miscellaneous (Administration Sundry Revenue, Reimbursements, etc. ....	69,179.19
TRANSFERRED TO OTHER DEPARTMENTS .....	111.76
SUSPENSE (Unapplied receipts carried forward, subject to refund) .....	1,263,805.92
	<u>\$126,286,986.39</u>

Statement E

## STATEMENT OF RECEIPTS—SCHOOL MINERALS

From April 1st, 1957 to March 31st, 1958

	Receipts	Refunds	Net Revenue
INCOME ACCOUNT:			
Coal Fees, Rentals, etc. ....	\$ 1,808.42	.....	\$ 1,808.42
Coal Royalty .....	6,621.37	.....	6,621.37
Petroleum and Natural Gas Fees,			
Rentals, etc. ....	1,737,611.63	\$2,602.40	1,735,009.23
Petroleum and Natural Gas Royalty .....	2,464,188.10	4,541.37	2,459,646.73
Crown Reserve Sales .....	2,133,139.64	.....	2,133,139.64
Mining Miscellaneous .....	9,335.62	.....	9,335.62
	<u>\$6,352,704.78</u>	<u>\$7,143.77</u>	<u>\$6,345,561.01</u>

Statement F

## STATEMENT OF RECEIPTS AND EXPENDITURE

For Fiscal Year Ending March 31st, 1958

Gross Receipts	Refunds	Net Receipts	Net Revenue on Income Account	Total Expenditure from Appropriations	Surplus on Income Account
\$134,941,659.02	\$8,654,672.63	\$126,286,986.39	\$125,023,032.91	\$1,462,506.25	\$123,560,526.66

**STATEMENT OF PROVINCIAL MINERALS REVENUE BY FISCAL YEARS  
RECEIVED BY THE PROVINCE FOR THE PERIOD APRIL 1st, 1949  
TO MARCH 31st, 1958**

	1949-50	1950-51	1951-52	1952-53	1953-54	1954-55	1955-56	1956-57	1957-58	Total
<b>COAL</b>										
Fees and Rentals .....	\$ 185,412.49	\$ 174,035.27	\$ 211,582.89	\$ 170,286.62	\$ 142,278.66	\$ 49,933.84	\$ 50,132.58	\$ 66,415.78	\$ 75,001.67	\$ 1,125,079.80
Royalty .....	600,493.96	577,667.84	394,441.24	354,123.99	268,694.28	216,147.06	201,607.49	151,790.88	102,601.90	2,867,568.64
Sundry Revenue .....	6,183.50	5,335.30	5,209.45	4,526.05	3,902.20	3,067.90	2,816.20	2,792.85	3,040.30	36,873.75
<b>PETROLEUM AND NATURAL GAS</b>										
Fees and Rentals .....	5,741,111.95	9,034,896.06	14,134,672.25	18,236,470.24	23,096,649.12	19,057,601.56	19,869,509.92	24,307,569.78	29,309,061.99	162,787,542.87
Royalty .....	3,368,918.86	4,760,569.46	10,062,772.17	12,353,945.64	17,048,688.02	18,519,831.09	26,610,888.37	34,489,488.26	30,352,487.86	157,567,569.73
Crown Reserve Sales .....	23,180,998.77	28,008,052.42	12,517,931.33	19,659,005.63	49,590,009.60	38,954,155.80	71,931,568.77	67,531,659.11	56,508,696.49	367,882,077.92
<b>SALT</b>										
Fees and Rentals .....	564.00	3,129.00	1,005.60	1,005.60	1,005.60	1,005.60	1,005.60	1,010.60	1,010.60	10,742.20
Royalty .....	2,024.92	9,230.96	4,895.32	6,806.71	7,063.37	7,978.06	9,868.92	10,050.54	9,859.84	67,778.64
<b>QUARRYING</b>										
Fees and Rentals .....	1,019.31	1,176.72	291.28	227.23	325.01	185.52	173.30	213.25	117.75	3,729.37
Royalty .....	29,939.08	36,486.29	27,908.36	29,309.75	38,798.28	41,181.51	39,552.17	53,590.28	45,540.05	342,305.77
<b>QUARTZ</b>										
Fees and Royalty .....	377.56	630.00	853.47	3,826.17	15,750.92	3,283.19	1,944.82	1,180.35	1,040.00	28,886.48
<b>PLACER</b>										
Fees and Royalty .....	.....	325.08	42.79	30.00	30.00	1,510.00	1,117.50	1,346.15	500.00	4,901.52
<b>BITUMINOUS SANDS</b>										
Fees, Rentals and Royalty..	13,350.28	7,173.20	7,173.20	52,480.95	62,994.50	42,543.76	197,997.20	89,878.58	479,047.55	952,639.22
<b>MINING MISCELLANEOUS</b>										
Fees, Rentals and Royalty..	218,265.08	126,786.20	299,699.45	223,672.12	191,953.44	105,279.64	185,582.37	107,109.32	204,413.10	1,662,760.72
<b>MINERAL TAX</b>										
Non-Producing Area Tax...	297,883.10	307,062.62	323,185.71	310,285.08	283,853.18	277,842.74	264,496.50	272,883.90	282,057.60	2,619,550.43
Producing Area Tax .....	452,838.16	526,029.61	444,293.91	572,671.45	717,352.55	1,031,922.72	1,031,802.40	1,070,380.73	1,232,795.31	7,080,086.84
Certificate Fees .....	286.50	511.00	2,320.10	3,204.00	1,055.50	1,467.00	914.50	1,101.50	1,056.50	11,916.60
<b>ADMINISTRATION</b>										
SUNDRY REVENUE ....	21,915.60	34,734.13	61,946.42	83,735.45	90,413.82	69,268.78	51,489.41	75,902.99	67,642.46	557,049.06
<b>TOTAL</b> .....	<u>\$34,121,583.12</u>	<u>\$43,613,831.16</u>	<u>\$38,500,224.94</u>	<u>\$52,065,612.68</u>	<u>\$1,560,818.05</u>	<u>\$7,384,205.77</u>	<u>\$120,452,448.02</u>	<u>\$128,234,364.85</u>	<u>\$118,675,970.97</u>	<u>\$705,609,059.56</u>



STATEMENT OF SCHOOL MINERALS REVENUE BY FISCAL YEARS  
RECEIVED BY THE PROVINCE FOR THE PERIOD APRIL 1st, 1949  
TO MARCH 31st, 1958

	1949-50	1950-51	1951-52	1952-53	1953-54	1954-55	1955-56	1956-57	1957-58	Total
<b>COAL</b>										
Fees and Rentals .....	\$ 6,313.28	6,965.91	3,761.05	5,888.62	\$ 6,474.45	\$ 2,099.50	\$ 1,797.51	\$ 1,871.19	\$ 1,808.42	\$ 36,979.93
Royalty .....	51,074.51	45,643.83	42,969.61	25,368.52	17,874.97	14,759.80	15,232.15	13,343.74	6,621.37	232,888.50
<b>PETROLEUM AND NATURAL GAS</b>										
Fees and Rentals .....	514,065.59	744,745.23	1,245,877.55	1,445,874.57	1,501,344.38	1,597,125.63	1,500,750.38	1,512,245.53	1,735,009.23	11,797,038.09
Royalty .....	242,199.47	429,423.19	975,317.20	1,157,006.02	1,516,438.34	1,694,748.02	2,184,005.64	2,803,026.05	2,459,646.73	13,461,810.66
Crown Reserve Sales .....	50,449.43	1,072,579.97	693,357.64	3,868,438.03	3,646,107.46	1,059,164.00	4,143,163.73	1,519,201.38	2,133,139.64	18,185,601.28
<b>BITUMINOUS SANDS</b>										
Fees, Rentals and Royalty..	1,845.00	565.00	565.00	892.05	932.10	623.20	1,184.20	1,558.12	8,618.62	16,783.29
<b>MINING MISCELLANEOUS</b>										
Fees, Rentals and Royalty..	.....	3,896.01	3,768.15	1,008.00	23.00	350.61	734.75	853.00	717.00	11,350.52
<b>TOTAL</b> .....	\$ 865,947.28	\$ 2,303,819.14	\$ 2,965,616.20	6,504,475.81	\$ 6,689,194.70	\$ 4,368,870.76	\$ 7,846,868.36	\$ 5,852,099.01	6,345,561.01	\$ 43,742,452.27

## PERSONNEL

The number of employees in the Department showed an increase of eleven from 176 on April 1st, 1957 to 187 on March 31st, 1958.

During the same period, 47 employees left the Department, of these 11 resigned to accept employment outside the government service, 1 transferred to other departments, 1 was dismissed, 1 retired and the remainder left for various other reasons.



